To: oliver.schmidt@vw.com;richard.thomas@vw.com;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; ichard.thomas@vw.com;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Cc: john.finneran@nhtsa.dot.gov;CN=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Jeff Alson/OU=AA/O=USEPA/C=US@EPA;CN=Ben Ellies/OU=AA/O=USEPA/C=US@EPA;Harry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Jeff Alson/OU=AA/O=USEPA/C=US@EPA;CN=Ben Ellies/OU=AA/O=USEPA/C=US@EPA;Harry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=Jeff Alson/OU=AA/O=USEPA/C=US@EPA;CN=Ben Ellies/OU=AA/O=USEPA/C=US@EPA;Harry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=Ben Ellies/OU=AA/O=USEPA/C=US@EPA;Harry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; arry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; erry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; enrietta.Dandy@dot.gov[]
Bcc: []
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Wed 1/2/2013 6:09:30 PM
Subject: EPA CAFE letter & calculation attached - 2011 VW Group IP, LT

This e-mail message forwards a signed EPA letter and Corporate Average Fuel Economy (CAFE) calculation to your office.

This e-mail and the Adobe Acrobat (.pdf) attachment are an official Agency action. If there is a problem with the attachment or if you are not the intended recipient, please contact your certification team representative immediately. Adobe Acrobat Reader version 5.0 or later is required to open the attached PDF document(s).

[attachment "2011_VWX_LT_20121206_101129_CAFE.pdf" deleted by David Good/AA/USEPA/US]
[attachment "2011_VWX_IP_20121206_102046_CAFE.pdf" deleted by David Good/AA/USEPA/US]

To: oliver.schmidt@vw.com;richard.thomas@vw.com;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; ichard.thomas@vw.com;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Cc: john.finneran@nhtsa.dot.gov;CN=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Jeff Alson/OU=AA/O=USEPA/C=US@EPA;CN=Ben Ellies/OU=AA/O=USEPA/C=US@EPA;Harry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Jeff Alson/OU=AA/O=USEPA/C=US@EPA;CN=Ben Ellies/OU=AA/O=USEPA/C=US@EPA;Harry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=Jeff Alson/OU=AA/O=USEPA/C=US@EPA;CN=Ben Ellies/OU=AA/O=USEPA/C=US@EPA;Harry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=Ben Ellies/OU=AA/O=USEPA/C=US@EPA;Harry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; arry.Thompson@dot.gov;terry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; erry.anderson@dot.gov;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; N=Aaron Hula/OU=AA/O=USEPA/C=US@EPA;Henrietta.Dandy@dot.gov[]; enrietta.Dandy@dot.gov[]
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Wed 1/2/2013 6:09:30 PM
Subject: EPA CAFE letter & calculation attached - 2011 VW Group IP, LT
2011_VWX_LT_20121206_101129_CAFE.pdf
2011_VWX_IP_20121206_102046_CAFE.pdf

This e-mail message forwards a signed EPA letter and Corporate Average Fuel Economy (CAFE) calculation to your office.

This e-mail and the Adobe Acrobat (.pdf) attachment are an official Agency action. If there is a problem with the attachment or if you are not the intended recipient, please contact your certification team representative immediately. Adobe Acrobat Reader version 5.0 or later is required to open the attached PDF document(s).

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ANN ARBOR, MICHIGAN 48105
OFFICE OF TRANSPORTATION AND AIR QUALITY

January 02, 2013

Dr. Oliver Schmidt
General Manager
Engineering and Environmental Office
Volkswagen Group of America
3800 Hamlin Road
Auburn Hills, MI 48326

Dear Dr. Schmidt:

This letter serves to formally acknowledge the receipt of your 2011 final average fuel economy calculation for Light Trucks. The EPA-calculated and the manufacturer-submitted mpg values for this calculation are shown on the enclosed 'CAFE Report' page of EPA's calculation.

In accordance with 40 CFR 600.510-08(e), we calculated an adjusted final value of 27.1 mpg; this value will serve as our official determination.

A copy of the calculation is enclosed.

Sincerely yours,

Linc Wehrly, Center Director
Light-Duty Vehicle Center
Compliance Division

Enclosures

cc: J. Finneran, NHTSA

VERIFY ENGINE AND VEHICLE COMPLIANCE SYSTEM
CORPORATE AVERAGE FUEL ECONOMY (CAFE) REPORT
MANUFACTURERS FUEL ECONOMY CALCULATION FOR MODEL YEAR 2011

Report Date: January 02, 2013
Manufacturer Name: Volkswagen Group of America
Compliance Category: Light Trucks
Official Production: 64,780
Official CAFE Value: 27.1 mpg
Official CAFE Standard: 26.0 (Reformed)

Submitted by Mfr: March 13, 2012, Transaction ID: _99c52bfd-38eb-4598-b857-9dd34b851dad

	EPA Calculation	Mfr Calculation	Calc Warnings
Baseline Calculation (No AMFA credit)			
Unadjusted Unrounded:	27.1483	27.1483	-
Unadjusted Rounded:	27.1	27.1	-
Adjusted (TPA) Unrounded:	27.1483	N/A	-
Adjusted (TPA) Rounded:	27.1	N/A	-
Final Calculation (Incl AMFA credit)			
Unadjusted Unrounded:	27.1483	27.1483	-
Unadjusted Rounded:	27.1	27.1	-
Adjusted (TPA) Unrounded:	27.1483	N/A	-
Adjusted (TPA) Rounded:	27.1	N/A	-
Total Production Volume:	Ex. 4 - CBI		-
CAFE Value:	27.1	27.1	-

Statistics

Model Types: 10

Base Levels: 11

Configurations: 11
Tested: 11
Ex. 4 - CBI
Tested Production Volume Pct: 100.0000% (100%)

Subconfigurations: 11
Tested: 11

Ex. 4 - CBI

Verify Macro Status
Source: System
Verify_Production
Oracle in instantclient_11_2
Processing - MY: 2011, Mfr: VWX - Volkswagen, Category: LT - Light Trucks
LDFE_CAFE_HEADER_ID: 56
LDFE_CAFE_COMMENTS_ID: 0

LDFE_CAFE_ID:	247	(N)	Final=N	Active=N	2012-02-14 13:29:31.926000	_4b3a2bf5-121e-4d34-a870-460843998faa	
LDFE_CAFE_ID:	253	(C)	Final=N	Active=N	2012-02-24 11:20:30.318000	_21abd565-99ff-4cc5-8d21-d6211600c016	
LDFE_CAFE_ID:	262	(C)	Final=N	Active=N	2012-03-07 07:06:48.706000	b1bac458-7f28-428e-b0d9-6c422043dfe3	
LDFE_CAFE_ID:	266	(C)	Final=N	Active=N	2012-03-09 09:52:08.040000	_79ef03df-6f1b-4f17-8049-d8b19b1c3419	
LDFE_CAFE_ID:	272	(C)	Final=Y	Active=Y	2012-03-13 13:14:00.504000	_99c52bfd-38eb-4598-b857-9dd34b851dad	Mr. Richard E Thomas Jr.

	Truck Mfr	Truck Verify
Baseline Calculation:		
Unrounded Unadjustec	27.1483	27.1483
Rounded Unadjusted	27.1	27.1
Unrounded Adjusted (TPA)	-	27.1483
Rounded Adjusted (TPA)	-	27.1
Final Calculation:		
Unrounded Unadjustec	27.1483	27.1483
Rounded Unadjusted	27.1	27.1
Unrounded Adjusted (TPA)	-	27.1483
Rounded Adjusted (TPA)	-	27.1
Final Production Volume	Ex. 4 - CBI	
Footprint Production Volume		
Official CAFE MPG	27.1	27.1
Final Status		
Unrounded Reformed Standard	26.0276	26.0276
Rounded Reformed Standard	26.0	26.0
Reformed Standard Comment	(none)	

Dual Fuel / Alt Fuel
0
0.0%

Calc_ID	Mfr Cd	MT Index	Dom/Imp	TLAAS	Dvsn CD	CarLn CD	Division Name	Carline Name	Engine	Fuel(s)	Trans	Lockup	Creeper	Drv Sys	Prd Vol	Tst Vol	Baseline Fuel Cty FE	Baseline Fuel Hwy FE	Baseline Fuel Cmb FE	Dual Fuel / Alt Fuel Prd Vol	Dual Fuel / Alt Fuel Cty FE	Dual Fuel / Alt Fuel Hwy FE	Dual Fuel / Alt Fuel Cmb FE	AMFA Cty FE	AMFA Hwy FE	AMFA Cmb FE
006897	ADX	009	Import	Null	1	330	Audi	Q5	2.0 TC	GP	SA8	Y	N	A			24.600000	35.900000	28.659400	-	-	-	-	24.600000	35.900000	28.659400
006892	ADX	015	Import	Null	1	330	Audi	Q5	3.2 NA	GP	SA6	Y	N	A			22.700000	30.700000	25.715500	-	-	-	-	22.700000	30.700000	25.715500
006894	ADX	043	Import	Null	1	320	Audi	Q7	3.0 SC	GP	SA8	Y	N	A			19.249972	29.812936	22.901338	-	-	-	-	19.249972	29.812936	22.901338
006900	ADX	048	Import	Null	1	320	Audi	Q7	3.0 TC	DU	SA8	Y	N	A			21.300000	37.400000	26.417500	-	-	-	-	21.300000	37.400000	26.417500
006895	ADX	049	Import	Null	2	140	Volkswagen	TOUAREG	3.0 TC	DU	SA8	Y	N	A			23.400000	40.700000	28.934500	-	-	-	-	23.400000	40.700000	28.934500
006898	VWX	040	Import	Null	2	165	Volkswagen	TIGUAN 4MOTION	2.0 TC	GP	SA6	Y	N	A	Ex. 4 - CBI		24.000000	34.900000	27.924700	-	-	-	-	24.000000	34.900000	27.924700
006893	VWX	041	Import	Null	2	160	Volkswagen	TIGUAN	2.0 TC	GP	SA6	Y	N	F			24.400000	34.500000	28.102200	-	-	-	-	24.400000	34.500000	28.102200
006891	VWX	042	Import	Null	2	160	Volkswagen	TIGUAN	2.0 TC	GP	M6	N	N	F			21.700000	35.800000	26.374500	-	-	-	-	21.700000	35.800000	26.374500
006896	VWX	069	Import	Null	1	140	Volkswagen	TOUAREG	3.6 NA	GP	SA8	Y	N	A			21.300000	31.600000	24.961200	-	-	-	-	21.300000	31.600000	24.961200
006899	VWX	077	Import	Null	1	145	Volkswagen	Touareg Hybrid	3.0 SC	GP	SA8	Y	N	A			25.100000	33.100000	28.163100	-	-	-	-	25.100000	33.100000	28.163100
											Truck	==>								-						

Light Truck

Ex. 4 - CBI

Ex. 4 - CBI

Footprint Based Standards Calculations
CAFE Submission: 272 (Active = Y)

Mfr Cd	Dvsn CD	CarLn Cd	Division Name	Carline Name	FP Index	Footprint Description	Reformed CAFE Standard Calculation Front TW	Rear TW	Whl Base	SqFt	Trgt FE	Trk Vol	Weighted Truck
ADX	1	320	Audi	Q7	1	Audi Q7 3.0T 255/55R18	64.8	65.9	118.2	53.7			
ADX	1	320	Audi	Q7	2	Audi Q7 3.0L TDI 265/50R19	64.3	65.5	118.2	53.3			
ADX	1	330	Audi	Q5	1	Audi Q5 2.0L 235/60R18	63.7	63.5	110.5	48.8			
ADX	1	330	Audi	Q5	2	Audi Q5 3.2L 235/55R19	63.7	63.5	110.5	48.8			
ADX	2	140	Volkswagen	TOUAREG	1	Touareg VR6 & TDI 255/55R18	65.0	65.7	113.9	51.7			
ADX	2	160	Volkswagen	TIGUAN	1	Tiguan 215/65R16	61.8	61.9	102.5	44.0			
ADX	2	165	Volkswagen	TIGUAN 4MOTION	1	Tiguan 4Motion 215/65R16	61.8	61.9	102.5	44.0			
VWX	1	140	Volkswagen	TOUAREG	1	Touareg VR6 & TDI 255/55R18	65.0	65.7	113.9	51.7			
VWX	1	145	Volkswagen	Touareg Hybrid	1	Touareg Hybrid 265/50R19	64.5	65.3	113.9	51.3			
						Totals							
						Unrounded Standard							
						Rounded Standard							

Ex. 4 - CBI

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ANN ARBOR, MICHIGAN 48105
OFFICE OF TRANSPORTATION AND AIR QUALITY

January 02, 2013

Dr. Oliver Schmidt
General Manager
Engineering and Environmental Office
Volkswagen Group of America
3800 Hamlin Road
Auburn Hills, MI 48326

Dear Dr. Schmidt:

This letter serves to formally acknowledge the receipt of your 2011 final average fuel economy calculation for Import Passenger Vehicles. The EPA-calculated and the manufacturer-submitted mpg values for this calculation are shown on the enclosed 'CAFE Report' page of EPA's calculation.

In accordance with 40 CFR 600.510-08(e), we calculated an adjusted final value of 33.9 mpg; this value will serve as our official determination. This official value includes 0.1 mpg increase in average fuel economy attributed to manufacturing incentives for alternative fuel, dual-fuel automobiles, ref 49 U.S.C 32905.

A copy of the calculation is enclosed.

Sincerely yours,

Linc Wehrly, Center Director
Light-Duty Vehicle Center
Compliance Division

Enclosures

cc: J. Finneran, NHTSA

VERIFY ENGINE AND VEHICLE COMPLIANCE SYSTEM
CORPORATE AVERAGE FUEL ECONOMY (CAFE) REPORT
MANUFACTURERS FUEL ECONOMY CALCULATION FOR MODEL YEAR 2011

Report Date: January 02, 2013
Manufacturer Name: Volkswagen Group of America
Compliance Category: Import Passenger Vehicles
Official Production: Ex. 4 - CBI
Official CAFE Value: **33.9 mpg**
Official CAFE Standard: **30.7 (Reformed)**

Submitted by Mfr: May 09, 2012, Transaction ID: _0ef59c1a-0719-427d-8af9-39f9b514a148

	EPA Calculation	Mfr Calculation	Calc Warnings
Baseline Calculation (No AMFA credit)			
Unadjusted Unrounded:	33.5336	33.5336	-
Unadjusted Rounded:	33.5	N/A	-
Adjusted (TPA) Unrounded:	33.7809	33.7810	MINOR
Adjusted (TPA) Rounded:	33.8	33.8	-
Final Calculation (Incl AMFA credit)			
Unadjusted Unrounded:	33.6127	33.6127	-
Unadjusted Rounded:	33.6	N/A	-
Adjusted (TPA) Unrounded:	33.8606	33.8607	MINOR
Adjusted (TPA) Rounded:	33.9	33.9	-
Total Production Volume:	Ex. 4 - CBI		-
CAFE Value:	33.9	33.9	-

Statistics

Model Types:	64
Base Levels:	64
Configurations:	85
Tested:	85
Tested Production Volume:	Ex. 4 - CBI
Tested Production Volume Pct:	
Subconfigurations:	151
Tested:	151
Tested Production Volume:	Ex. 4 - CBI
Tested Production Volume Pct:	

Verify Macro Status
Source: System
Verify_Production
Oracle in instantclient_11_2
Processing - MY: 2011, Mfr: VWX - Volkswagen, Category: PV - Passenger Vehicles
LDFE_CAFE_HEADER_ID: 79
LDFE_CAFE_COMMENTS_ID: 0

LDFE_CAFE_ID:	337	(N)	Final=N	Active=N	2012-03-29 08:48:22.604000	_b345a0d3-862c-40eb-a13f-9edb06ca2667
LDFE_CAFE_ID:	353	(C)	Final=N	Active=N	2012-04-13 09:38:19.416000	_ed400fdb-42c7-4b0a-854c-fe31fd784948
LDFE_CAFE_ID:	357	(C)	Final=N	Active=N	2012-04-17 08:22:11.223000	7f62f223-b330-4a43-ba25-ae3392a0cda3
LDFE_CAFE_ID:	360	(C)	Final=N	Active=N	2012-04-18 09:13:17.981000	_e75bd172-7e75-47d7-b15d-1694658572e5
LDFE_CAFE_ID:	362	(C)	Final=N	Active=N	2012-04-18 13:55:28.189000	_16f31acd-1e9e-4af9-bb2b-7f78744ad75b
LDFE_CAFE_ID:	363	(C)	Final=N	Active=N	2012-04-18 14:34:45.098000	_ee5ba2ac-c65b-48e1-869b-1de486dddcc9
LDFE_CAFE_ID:	369	(C)	Final=N	Active=N	2012-04-27 08:43:38.911000	_071210ae-dd05-441e-a8ae-ea7badeb224d
LDFE_CAFE_ID:	370	(C)	Final=N	Active=N	2012-04-27 08:51:11.149000	_a86ec3d0-d96e-442f-9f0b-4e0b337dbc6a
LDFE_CAFE_ID:	380	(C)	Final=N	Active=N	2012-05-09 08:28:32.693000	_147faeba-d532-414c-8bab-0e79cafe569b
LDFE_CAFE_ID:	381	(C)	Final=Y	Active=Y	2012-05-09 11:26:33.648000	_0ef59c1a-0719-427d-8af9-39f9b514a148

Mr. Richard E Thomas Jr.

	Import Mfr	Import Verify
Baseline Calculation:		
Unrounded Unadjustec	33.5336	33.5336
Rounded Unadjusted	-	33.5
Unrounded Adjusted (TPA)	33.7810	33.7809
Rounded Adjusted (TPA)	33.8	33.8
Final Calculation:		
Unrounded Unadjustec	33.6127	33.6127
Rounded Unadjusted	-	33.6
Unrounded Adjusted (TPA)	33.8607	33.8606
Rounded Adjusted (TPA)	33.9	33.9
Final Production Volume	**Ex. 4 - CBI**	
Footprint Production Volume		
Official CAFE MPG	33.9	33.9
Final Status		
Unrounded Reformed Standard	30.7479	30.7487
Rounded Reformed Standard	30.7	30.7

Dual Fuel / Alt Fuel
809
0.3%

Reformed Standard Comment: VOLKSWAGEN Group brands are: Volkswagen Audi Bentley Lamborghini Bugatti RLHP for Audi A8L changed to 12.9 from 13.0, rounded coefficients were used for target coefficients, and actual RLHP was 13.0

Calc_ID	Mfr Cd	MT Index	Dom/Imp	TLAAS	Dvsn CD	CarLn CD	Division Name	Carline Name	Engine	Fuel(s)	Trans	Lockup	Creeper	Drv Sys	Prd Vol	Tst Vol	Baseline Fuel Cty FE	Baseline Fuel Hwy FE	Baseline Fuel Cmb FE	Dual Fuel / Alt Fuel Prd Vol	Dual Fuel / Alt Fuel Cty FE	Dual Fuel / Alt Fuel Hwy FE	Dual Fuel / Alt Fuel Cmb FE	AMFA Cty FE	AMFA Hwy FE	AMFA Cmb FE
010268	ADX	001	Import	Null	1	10	Audi	A4	2.0 TC	GP	CVT1	N	N	F			29.258700	42.817200	34.120800	-	-	-	-	29.258700	42.817200	34.120800
010316	ADX	002	Import	Null	1	51	Audi	A5 Cabriolet	2.0 TC	GP	CVT1	N	N	F			29.258700	42.817200	34.120800	-	-	-	-	29.258700	42.817200	34.120800
010280	ADX	003	Import	Null	1	20	Audi	A4 QUATTRO	2.0 TC	GP	SA8	Y	N	A			26.041200	39.702100	30.812100	-	-	-	-	26.041200	39.702100	30.812100
010329	ADX	004	Import	Null	1	40	Audi	A5 QUATTRO	2.0 TC	GP	SA8	Y	N	A			26.041200	39.702100	30.812100	-	-	-	-	26.041200	39.702100	30.812100
010273	ADX	005	Import	Null	1	25	Audi	A4 AVANT QUATTRO	2.0 TC	GP	SA8	Y	N	A			26.041200	39.702100	30.812100	-	-	-	-	26.041200	39.702100	30.812100
010298	ADX	006	Import	Null	1	53	Audi	A5 Cabriolet quattro	2.0 TC	GP	SA8	Y	N	A			26.041200	39.702100	30.812100	-	-	-	-	26.041200	39.702100	30.812100
010269	ADX	007	Import	Null	1	20	Audi	A4 QUATTRO	2.0 TC	GP	M6	N	N	A			27.630900	42.464100	32.784300	-	-	-	-	27.630900	42.464100	32.784300
010317	ADX	008	Import	Null	1	40	Audi	A5 QUATTRO	2.0 TC	GP	M6	N	N	A			27.630900	42.464100	32.784300	-	-	-	-	27.630900	42.464100	32.784300
010279	ADX	010	Import	Null	1	96	Audi	A8L	4.2 NA	GP	SA8	Y	N	A			20.788000	35.071500	25.452700	-	-	-	-	20.788000	35.071500	25.452700
010286	ADX	011	Import	Null	1	95	Audi	A8	4.2 NA	GP	SA8	Y	N	A			20.788000	35.071500	25.452700	-	-	-	-	20.788000	35.071500	25.452700
010299	ADX	012	Import	Null	1	42	Audi	S5	4.2 NA	GP	M6	N	N	A			17.300000	29.300000	21.208800	-	-	-	-	17.300000	29.300000	21.208800
010281	ADX	013	Import	Null	1	75	Audi	A6 QUATTRO	4.2 NA	GP	SA6	Y	N	A			20.100000	32.200000	24.190600	-	-	-	-	20.100000	32.200000	24.190600
010271	ADX	014	Import	Null	1	42	Audi	S5	4.2 NA	GP	SA6	Y	N	A			20.400000	31.000000	24.109800	-	-	-	-	20.400000	31.000000	24.109800
010304	ADX	016	Import	Null	1	80	Audi	A6	3.2 NA	GP	CVT1	N	N	F			25.100000	40.800000	30.356600	-	-	-	-	25.100000	40.800000	30.356600
010297	ADX	017	Import	Null	1	30	Audi	S4	3.0 SC	GP	SA7	Y	N	A			21.600000	35.000000	26.096000	-	-	-	-	21.600000	35.000000	26.096000
010300	ADX	018	Import	Null	1	56	Audi	S5 Cabriolet	3.0 SC	GP	SA7	Y	N	A			20.300000	34.000000	24.796100	-	-	-	-	20.300000	34.000000	24.796100
010326	ADX	019	Import	Null	1	30	Audi	S4	3.0 SC	GP	M6	N	N	A			21.500000	34.100000	25.787900	-	-	-	-	21.500000	34.100000	25.787900
010319	ADX	020	Import	Null	1	75	Audi	A6 QUATTRO	3.0 SC	GP	SA6	Y	N	A			21.800000	34.800000	26.205200	-	-	-	-	21.800000	34.800000	26.205200
010314	ADX	021	Import	Null	1	78	Audi	A6 AVANT QUATTRO	3.0 SC	GP	SA6	Y	N	A			21.800000	34.800000	26.205200	-	-	-	-	21.800000	34.800000	26.205200
010311	ADX	022	Import	Null	1	65	Audi	A3	2.0 TC	GP	M6	N	N	F			25.256500	40.770500	30.474800	-	-	-	-	25.256500	40.770500	30.474800
010270	ADX	023	Import	Null	1	65	Audi	A3	2.0 TC	GP	SA6	Y	N	F			26.907200	38.660200	31.171600	-	-	-	-	26.907200	38.660200	31.171600
010323	ADX	024	Import	Null	1	66	Audi	A3 QUATTRO	2.0 TC	GP	SA6	Y	N	A			27.200000	37.100000	30.911900	-	-	-	-	27.200000	37.100000	30.911900
010274	ADX	025	Import	Null	1	37	Audi	TT COUPE QUATTRO	2.0 TC	GP	SA6	Y	N	A			27.983200	41.386600	32.757100	-	-	-	-	27.983200	41.386600	32.757100
010328	ADX	026	Import	Null	1	38	Audi	TT ROADSTER QUATTRO	2.0 TC	GP	SA6	Y	N	A			27.983200	41.386600	32.757100	-	-	-	-	27.983200	41.386600	32.757100
010325	ADX	027	Import	Null	1	92	Audi	R8 Spyder	5.2 NA	GP	AM6	N	N	A			15.382300	24.384100	18.446800	-	-	-	-	15.382300	24.384100	18.446800
010276	ADX	028	Import	Null	1	90	Audi	R8	5.2 NA	GP	AM6	N	N	A			15.382300	24.384100	18.446800	-	-	-	-	15.382300	24.384100	18.446800
010294	ADX	029	Import	Null	1	92	Audi	R8 Spyder	5.2 NA	GP	M6	N	N	A			13.700000	23.187700	16.791800	-	-	-	-	13.700000	23.187700	16.791800
010285	ADX	030	Import	Null	1	90	Audi	R8	5.2 NA	GP	M6	N	N	A			13.700000	23.187700	16.791800	-	-	-	-	13.700000	23.187700	16.791800
010308	ADX	056	Import	Null	2	211	Volkswagen	GTI	2.0 TC	GP	M6	N	N	F			26.062200	41.318900	31.255600	-	-	-	-	26.062200	41.318900	31.255600
010307	ADX	057	Import	Null	2	293	Volkswagen	CC	2.0 TC	GP	M6	N	N	F			26.062200	41.318900	31.255600	-	-	-	-	26.062200	41.318900	31.255600
010303	ADX	059	Import	Null	1	76	Audi	S6	5.2 NA	GP	SA6	Y	N	A			17.200000	26.700000	20.478900	-	-	-	-	17.200000	26.700000	20.478900
010305	ADX	072	Import	Null	1	92	Audi	R8 Spyder	4.2 NA	GP	AM6	N	N	A			15.971400	26.920600	19.549400	-	-	-	-	15.971400	26.920600	19.549400
010327	ADX	073	Import	Null	1	90	Audi	R8	4.2 NA	GP	AM6	N	N	A	Ex. 4 - CBI		15.971400	26.920600	19.549400	-	-	-	-	15.971400	26.920600	19.549400
010312	ADX	074	Import	Null	1	92	Audi	R8 Spyder	4.2 NA	GP	M6	N	N	A			13.654800	24.392700	17.027900	-	-	-	-	13.654800	24.392700	17.027900
010287	ADX	075	Import	Null	1	90	Audi	R8	4.2 NA	GP	M6	N	N	A			13.654800	24.392700	17.027900	-	-	-	-	13.654800	24.392700	17.027900
010293	ADX	152	Import	Null	3	406	Lamborghini	Gallardo Coupe	5.2 NA	GP	AM6	N	N	A			16.100000	25.400000	19.276000	-	-	-	-	16.100000	25.400000	19.276000
010301	ADX	153	Import	Null	3	426	Lamborghini	Gallardo Spyder	5.2 NA	GP	AM6	N	N	A			16.000000	25.400000	19.197000	-	-	-	-	16.000000	25.400000	19.197000
010283	ADX	154	Import	Null	3	406	Lamborghini	Gallardo Coupe	5.2 NA	GP	M6	N	N	A			14.000000	24.000000	17.230800	-	-	-	-	14.000000	24.000000	17.230800
010275	BEX	044	Import	Null	1	45	Bentley Motors Ltd.	Continental GTC	6.0 TC	GP-E	SA6	Y	N	A			13.398700	23.873200	16.694900	377	9.440400	16.938700	11.788700	22.093768	39.413965	27.539644
010295	BEX	045	Import	Null	1	40	Bentley Motors Ltd.	Continental Flying Spur	6.0 TC	GP-E	SA6	Y	N	A			13.398700	23.873200	16.694900	258	9.440400	16.938700	11.788700	22.093768	39.413965	27.539644
010320	BEX	046	Import	Null	1	55	Bentley Motors Ltd.	Continental Supersports Convt	6.0 TC	GP-E	SA6	Y	N	A			13.900000	24.700000	17.304900	88	10.300000	17.200000	12.569000	23.119903	40.644822	28.685869
010330	BEX	047	Import	Null	1	50	Bentley Motors Ltd.	Continental Supersports	6.0 TC	GP-E	SA6	Y	N	A			14.300000	25.200000	17.756100	86	10.300000	17.700000	12.686800	23.670550	41.530726	29.350480
010322	BEX	076	Import	Null	1	15	Bentley Motors Ltd.	Mulsanne	6.8 TC	GP	SA8	Y	N	R			12.700000	23.400000	15.990300	-	-	-	-	12.700000	23.400000	15.990300
010324	BGT	061	Import	Null	1	500	Bugatti	Veyron	8.0 TC	GPR	SA7	N	N	A			10.000000	17.900000	12.478200	-	-	-	-	10.000000	17.900000	12.478200
010282	VWX	031	Import	Null	1	225	Volkswagen	JETTA SPORTWAGEN	2.5 NA	G	SA6	Y	N	F			27.810400	42.469800	32.924500	-	-	-	-	27.810400	42.469800	32.924500
010321	VWX	032	Import	Null	1	221	Volkswagen	Jetta	2.5 NA	G	SA6	Y	N	F			27.810400	42.469800	32.924500	-	-	-	-	27.810400	42.469800	32.924500
010284	VWX	033	Import	Null	1	206	Volkswagen	GOLF	2.5 NA	G	SA6	Y	N	F			27.810400	42.469800	32.924500	-	-	-	-	27.810400	42.469800	32.924500
010290	VWX	034	Import	Null	1	225	Volkswagen	JETTA SPORTWAGEN	2.5 NA	G	M5	N	N	F			26.269100	44.383700	32.179200	-	-	-	-	26.269100	44.383700	32.179200
010289	VWX	035	Import	Null	1	221	Volkswagen	Jetta	2.5 NA	G	M5	N	N	F			26.269100	44.383700	32.179200	-	-	-	-	26.269100	44.383700	32.179200
010296	VWX	036	Import	Null	1	206	Volkswagen	GOLF	2.5 NA	G	M5	N	N	F			26.269100	44.383700	32.179200	-	-	-	-	26.269100	44.383700	32.179200
010278	VWX	037	Import	Null	1	216	Volkswagen	EOS	2.0 TC	GP	SA6	Y	N	F			27.500000	41.500000	32.421900	-	-	-	-	27.500000	41.500000	32.421900
010267	VWX	038	Import	Null	2	293	Volkswagen	CC	2.0 TC	GP	SA6	Y	N	F			26.984600	42.542800	32.300200	-	-	-	-	26.984600	42.542800	32.300200
010310	VWX	039	Import	Null	2	211	Volkswagen	GTI	2.0 TC	GP	SA6	Y	N	F			29.923000	43.490700	34.809800	-	-	-	-	29.923000	43.490700	34.809800
010313	VWX	050	Import	Null	1	221	Volkswagen	Jetta	2.0 NA	G	SA6	Y	N	F			28.100000	41.499000	32.876800	-	-	-	-	28.100000	41.499000	32.876800
010292	VWX	051	Import	Null	1	221	Volkswagen	Jetta	2.0 NA	G	M5	N	N	F			28.800000	46.200000	34.677100	-	-	-	-	28.800000	46.200000	34.677100
010302	VWX	060	Import	Null	1	298	Volkswagen	CC 4MOTION	3.6 NA	GP	SA6	Y	N	A			20.500000	33.500000	24.837300	-	-	-	-	20.500000	33.500000	24.837300
010288	VWX	062	Import	Null	2	65	Audi	A3	2.0 TC	DU	SA6	Y	N	F			39.079300	59.432300	46.198800	-	-	-	-	39.079300	59.432300	46.198800
010291	VWX	063	Import	Null	1	206	Volkswagen	GOLF	2.0 TC	DU	SA6	Y	N	F			39.079300	59.432300	46.198800	-	-	-	-	39.079300	59.432300	46.198800
010318	VWX	064	Import	Null	1	221	Volkswagen	Jetta	2.0 TC	DU	SA6	Y	N	F			39.079300	59.432300	46.198800	-	-	-	-	39.079300	59.432300	46.198800
010306	VWX	065	Import	Null	1	225	Volkswagen	JETTA SPORTWAGEN	2.0 TC	DU	SA6	Y	N	F			37.600000	56.200000	44.179800	-	-	-	-	37.600000	56.200000	44.179800
010272	VWX	066	Import	Null	1	206	Volkswagen	GOLF	2.0 TC	DU	M6	N	N	F			38.758400	60.013800	46.106900	-	-	-	-	38.758400	60.013800	46.106900
010309	VWX	067	Import	Null	1	221	Volkswagen	Jetta	2.0 TC	DU	M6	N	N	F			38.758400	60.013800	46.106900	-	-	-	-	38.758400	60.013800	46.106900

010277	VWX	068	Import	Null	1	225	Volkswagen	JETTA SPORTWAGEN	2.0 TC	DU	M6	N	N	F	Ex. 4 - CBI	38.758400	60.013800	46.106900	-	-	-	-	38.758400	60.013800	46.106900
010315	VWX	158	Import	Null	1	216	Volkswagen	EOS	2.0 TC	GP	M6	N	N	F		26.062200	41.318900	31.255600	-	-	-	-	26.062200	41.318900	31.255600
											Import	==>							809					

Import Passenger Vehicle

Config Tested % = 100 x TestedProdVol / TotalProdVol = 100 x 268556 / 268556 = 100.0000000000% = 100%
SFITW3000 = TotalProdVol@ITW3000 / TotalProdVol = 18418 / 268556 = 0.0686000000 = 0.0686
SFETW4000 = TotalProdVol@ETW4000 / TotalProdVol = 25883 / 268556 = 0.0964000000 = 0.0964

Ex. 4 - CBI

Footprint Based Standards Calculations
CAFE Submission: 381 (Active = Y)

							Reformed CAFE Standard Calculation						
Mfr Cd	Dvsn CD	CarLn Cd	Division Name	Carline Name	FP Index	Footprint Description	Front TW	Rear TW	Whl Base	SqFt	Trgt FE	Imp Vol	Weighted Import
ADX	1	10	Audi	A4	1	A4 225/50R17	61.1	60.6	110.6	46.7	30.48		
ADX	1	20	Audi	A4 QUATTRO	1	A4 quattro 225/50R17	61.1	60.6	110.6	46.7	30.48		
ADX	1	25	Audi	A4 AVANT QUATTRO	1	A4 Avant quattro 225/50R17	61.1	60.6	110.6	46.7	30.48		
ADX	1	30	Audi	S4	1	S4 245/40R18	60.9	60.4	110.6	46.5	30.55		
ADX	1	37	Audi	TT COUPE QUATTRO	1	TT Coupe quattro 255/35R19	61.2	60.9	97.0	41.1	31.16		
ADX	1	38	Audi	TT ROADSTER QUATTRO	1	TT Roadster quattro 255/35R19	61.2	60.9	97.0	41.1	31.16		
ADX	1	40	Audi	A5 QUATTRO	1	A5 quattro 245/40R18	62.5	62.0	108.3	46.8	30.45		
ADX	1	42	Audi	S5	1	S5 255/35R19	62.3	61.8	108.3	46.6	30.52		
ADX	1	51	Audi	A5 Cabriolet	1	A5 Cabriolet 245/40R18	62.5	62.0	108.3	46.8	30.45		
ADX	1	53	Audi	A5 Cabriolet quattro	1	A5 Cabriolet quattro 245/40R18	62.5	62.0	108.3	46.8	30.45		
ADX	1	56	Audi	S5 Cabriolet	1	S5 Cabriolet 255/35R19	62.3	61.8	108.3	46.6	30.52		
ADX	1	65	Audi	A3	1	A3 225/45R17	59.9	58.8	101.5	41.9	31.14		
ADX	1	66	Audi	A3 QUATTRO	1	A3 quattro 225/45R17	59.9	58.8	101.5	41.9	31.14		
ADX	1	75	Audi	A6 QUATTRO	1	A6 quattro 245/45R17	62.4	62.7	111.9	48.6	29.54		
ADX	1	76	Audi	S6	1	S6 265/35R18	62.8	62.0	112.1	48.6	29.54		
ADX	1	78	Audi	A6 AVANT QUATTRO	1	A6 Avant quattro 245/45R17	62.4	62.7	111.9	48.6	29.54		
ADX	1	80	Audi	A6	1	A6 245/45R17	62.4	62.7	111.9	48.6	29.54		
ADX	1	90	Audi	R8	1	R8 235 & 295/30R19	64.3	62.8	104.3	46.1	30.66		
ADX	1	92	Audi	R8 Spyder	1	R8 Spyder 235 and 295/35R19	64.3	62.8	104.3	46.1	30.66		
ADX	1	95	Audi	A8	1	A8 255/40R19	64.9	64.5	117.8	52.9	25.88		
ADX	1	96	Audi	A8L	1	A8L 255/40R19	64.9	64.5	122.9	55.2	24.69		
ADX	2	211	Volkswagen	GTI	1	GTI 225/40R18	60.4	59.6	101.5	42.3	31.12		
ADX	2	293	Volkswagen	CC	1	CC 235/45R17	61.1	61.4	106.7	45.3	30.84		
ADX	3	406	Lamborghini	Gallardo Coupe	1	Gallardo Coupe 235 and 293/30R19	64.3	62.9	100.8	44.5	30.96		
ADX	3	426	Lamborghini	Gallardo Spyder	1	Gallardo Spyder 235 and 293/30R19	64.3	62.9	100.8	44.5	30.96		
BEX	1	15	Bentley	Mulsanne	1	Mulsanne 265/45R20	63.1	64.3	128.6	56.9	24.30		
BEX	1	40	Bentley	Continental Flying Spur	1	Flying Spur 275/40R19	63.9	63.3	120.7	53.3	25.60		
BEX	1	45	Bentley	Continental GTC	1	GTC 275/40R19	64.0	63.3	108.1	47.7	30.07		
BEX	1	50	Bentley	Continental Supersports	1	Supersports 275/35R20	63.7	65.2	108.1	48.3	29.74		
BEX	1	55	Bentley	Continental Supersports Convt	1	Supersports Convertible 275/35R20	63.9	65.2	108.1	48.5	29.61		
BGT	1	500	Bugatti	Veyron	1	Veyron	67.9	63.8	106.7	48.8	29.41		
VWX	1	206	Volkswagen	GOLF	1	Golf (TDI) 225/45 R17	60.1	59.0	101.5	42.0	31.13		
VWX	1	206	Volkswagen	GOLF	2	Golf 195/65 R15	60.6	59.6	101.5	42.4	31.12		
VWX	1	216	Volkswagen	EOS	1	Eos 235/45R17	60.7	60.8	101.5	42.9	31.09		
VWX	1	221	Volkswagen	Jetta	1	Jetta 205/55 R16	60.4	60.3	104.4	43.8	31.03		
VWX	1	221	Volkswagen	Jetta	2	Jetta (MPI) 195/65 R15	60.6	60.7	104.4	43.9	31.02		
VWX	1	225	Volkswagen	JETTA SPORTWAGEN	1	Jetta Sportwagen 205/55 R16	60.7	59.4	101.5	42.3	31.12		
VWX	1	293	Volkswagen	CC	1	CC 235/40 R18	61.1	61.4	106.7	45.3	30.84		
VWX	1	298	Volkswagen	CC 4MOTION	1	CC 4Motion 235/40 R18	61.1	61.4	106.7	45.3	30.84		
VWX	2	65	Audi	A3	1	A3 225/45R17	59.9	58.8	101.5	41.9	31.14		

Ex. 4 - CBI

Totals
Unrounded Standard
Rounded Standard

Ex. 4 - CBI

VOLKSWAGEN

GROUP OF AMERICA

Mr. Linc Wehrly
Manager
Compliance and Innovative Strategies Division
U.S. Environmental Protection Agency
2000 Traverwood
Ann Arbor, Michigan 48105

Leonard W. Kata Name
Manager Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

December 17, 2012 Date

Ex. 7

REVIEWED AND ACCEPTED
DATE 1/2/13 EPA

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Subject: Test Group EADXJ03.04UG – SCR / AECD Request for Approval

Dear Ex. 7 :

Enclosed for your review is the AECD description for certification of the Volkswagen 2014 3.0L TDI Diesel Test Group EADXJ03.04UG. This information is provided in advance of the submission of the application for certification.

The submission includes the following:

- Request for Approval – SCR Guidance Letter Compliance (Attachment 1)
- AECD Description Section for Test Group EADXJ03.04UG (Attachment 2)
  - Includes System Overview for 3.0L V6 TDI engine

The general concept is carried over from the 2013 model year. In general, the SCR request for approval for the 2014 model year 3.0L TDI follows the description in the EPA guidance document CID-07-07. Moreover, system features address concerns raised in discussions with the California Air Resources Board, specific to ; 1.) remedies to address the use of wrong reactant medium, and 2.) remedies for potential repeated tampering with the SCR system.

To: Robert Peavyhouse/AA/USEPA/US@EPA[]
Cc: Jim Snyder/AA/USEPA/US@EPA;"Thomas, Suanne (EEO)" [Suanne.Thomas@vw.com]; Thomas, Suanne (EEO)" [Suanne.Thomas@vw.com]; Giles, Michael (EEO)" [michael.giles@vw.com]; Peter, Juergen (EASZ/1)" [juergen.peter@volkswagen.de]; Schlueter, Hannah (EASZ/1)" [hannah.schlueter@volkswagen.de]
From: "Rodgers, William (EEO)"
Sent: Wed 1/2/2013 8:04:30 PM
Subject: Volkswagen Group 2013/14 Federal-Only Request for OBD Approval
CBI_DVWXV02.0B5F_RFA_OBD_R00.PDF
EPA Verify Submission 01022013.pdf

Hello Bob,

We are submitting the attached Request for OBD Approval for the 2013/14 model year Federal-Only Test Groups DVWXV02.0B5F and EVWXV02.0B5F (OBD Groups DVW-TFSIN and EVW-2.0-1.8T-G3). This request represents the next generation of Volkswagen gasoline direct injection I4-turbo engines to be offered in 1.8 Liter and 2.0 Liter displacements beginning in early March 2013. A member of our staff will soon be in touch with you to arrange a meeting with you on this topic. The attached CBI file has also been uploaded to the Verify system.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

Submission accepted for your file upload CBI_DVWXV02.0B5F_RFA_OBD_R00.PDF

- From: Verify Administrator
- Date: 1/2/2013 2:43:17 PM

Your recent submission for the file upload CBI_DVWXV02.0B5F_RFA_OBD_R00.PDF has been received by EPA. You will be notified if any additional actions on your part are required

The following document identifier has been assigned to this request:

_8273b265-cc64-4a28-8d20-404ed028ea8a

Document Name: CBI_DVWXV02.0B5F_RFA_OBD_R00.PDF

Transaction Identifier: _8273b265-cc64-4a28-8d20-404ed028ea8a

Click here to view the status history.

Thank you for submitting your request to Verify via CDX.

To: Jim Snyder/AA/USEPA/US@EPA[]
Cc: "Rodgers, William (EEO)" [William.Rodgers@vw.com]; Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
From: "Giles, Michael (EEO)"
Sent: Wed 1/2/2013 8:21:46 PM
Subject: RE: VW Group Model Year 2014 SCR / AECD Approval Request for 3.0L TDI test group EADXJ03.04UG
snyder.jim@epa.gov
michael.giles@vw.com
Ex. 7 @arb.ca.gov
@arb.ca.gov
Leonard.Kata@vw.com
William.Rodgers@vw.com

Thanks Jim,

I will follow up with Len when he returns Monday about commonality for the EGR protection.

Regards,

Mike

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Wednesday, January 02, 2013 2:04 PM
To: Giles, Michael (EEO)
Subject: Re: VW Group Model Year 2014 SCR / AECD Approval Request for 3.0L TDI test group EADXJ03.04UG

Mike, I approved the AECD. I did notice a EGR protection listed (page 12) that I hadn't seen before. We have heard of this before but I don't recalll seeing in it previous VW/Audi AECDs. Is this the only engine with it or do the others have it too?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Giles, Michael (EEO)" <michael.giles@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA, [Ex. 7]@arb.ca.gov>, Linc Wehrly/AA/USEPA/US@EPA
Cc: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>, "Rodgers, William (EEO)" <William.Rodgers@vw.com>
Date: 12/18/2012 02:57 PM
Subject: VW Group Model Year 2014 SCR / AECD Approval Request for 3.0L TDI test group EADXJ03.04UG

Hello Jim, Linc and [Ex. 7]

Today we submitted a request for approval for SCR / AECD for our Model Year 14 3.0L TDI test group EADXJ03.04UG. This request is contained in a (single) PDF document including cover letter and supporting pages, submitted under the following names:

EPA VERIFY: CBI_EADXJ03.04UG_RFA_SCR_R00
ARB DMS: CBI_VOLK_CORRESP_RFA1SCR_ .PDF (see workflow 2014_CBI_VOLK_CORRESP_RFA1SCR_)

This MY 14 test group is based on the same engine used in current test groups for Q7 / Touareg but will now include several PC models (A6,A7,A8, A8L) as well as one light truck (Q5).

In addition, this test group will be amongst our first for MY14 certification, therefore we would kindly ask you to review this at your earliest convenience. Please contact me if you have any questions about this request.

Regards,
Mike
Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

VW FOIA, EPA 06/20/2017 2017-FFP_005745

To: David Good/AA/USEPA/US@EPA[]
From: "Kata, Leonard (EEO)"
Sent: Mon 1/7/2013 1:30:50 PM
Subject: RE: Telephone Message

Hello Dave:

I heard part of your telephone message regarding diesel fuel, but the system cut it short due to length. My understanding is that you believe that the diesel fuel spec in the ARB LEV III regulations does not comply with the EPA diesel fuel spec. I assume you mean test fuel. You asked if we agree that this is the case, and then the message was cut off. I guess that the rest of the question might be what the implications are for Tier 3 or if we would have some suggestions on how to address this situation. I will discuss this internally and we will respond to the initial question. Please let me know what additional information you may want. A short e-mail would be good, since our telephone message system appears to have some limitations.

Best regards and Happy New Year!

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

VW FOIA, EPA 06/20/2017 2017-FFP_005746

To: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Mon 1/7/2013 2:31:07 PM
Subject: RE: Telephone Message regarding EPA's Verify database requirements for CARB LEV3 diesel fuel

Len,

Thanks for your email and Happy New Year to you also.

The part of the message that was cut off, I asked two questions, e.g.:

My understanding is that CARB LEV 3 regulations revised the diesel fuel specs for 2015 and subsequent model years---which would require a new fuel code in Verify for CARB LEV3 diesel fuel.

My questions are 1) whether you agree with my reading of CARB LEV3 diesel fuel requirements, and 2) what test fuel VW intends to use for 2014 and later diesel vehicles. [Normally, CARB LEV3 requirements start in 2015 model year, but optionally manufacturers may meet LEV3 requirements in 2014 model year.]

Dave

From: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
To: David Good/AA/USEPA/US@EPA
Date: 01/07/2013 08:31 AM
Subject: RE: Telephone Message

Hello Dave:

I heard part of your telephone message regarding diesel fuel, but the system cut it short due to length. My understanding is that you believe that the diesel fuel spec in the ARB LEV III regulations does not comply with the EPA diesel fuel spec. I assume you mean test fuel. You asked if we agree that this is the case, and then the message was cut off. I guess that the rest of the question might be what the implications are for Tier 3 or if we would have some suggestions on how to address this situation. I will discuss this internally and we will respond to the initial question. Please let me know what additional information you may want. A short e-mail would be good, since our telephone message system appears to have some limitations.

Best regards and Happy New Year!

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.

VW FOIA, EPA 06/20/2017 2017-FFP_005747

Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

VW FOIA, EPA 06/20/2017 2017-FFP_005748

To: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Mon 1/7/2013 2:31:07 PM
Subject: RE: Telephone Message regarding EPA's Verify database requirements for CARB LEV3 diesel fuel

Len,

Thanks for your email and Happy New Year to you also.

The part of the message that was cut off, I asked two questions, e.g.:

My understanding is that CARB LEV 3 regulations revised the diesel fuel specs for 2015 and subsequent model years---which would require a new fuel code in Verify for CARB LEV3 diesel fuel.

My questions are 1) whether you agree with my reading of CARB LEV3 diesel fuel requirements, and 2) what test fuel VW intends to use for 2014 and later diesel vehicles. [Normally, CARB LEV3 requirements start in 2015 model year, but optionally manufacturers may meet LEV3 requirements in 2014 model year.]

Dave

From: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
To: David Good/AA/USEPA/US@EPA
Date: 01/07/2013 08:31 AM
Subject: RE: Telephone Message

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Best regards and Happy New Year!

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204

Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

To: "Kata, Leonard" [Leonard.Kata@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 1/9/2013 1:54:44 PM
Subject: Plug-ins

Len, reviewing the pre-cert letter, I see one reference to a plug-in HEV. The Jetta scheduled for mid-year. I know some PHEVs are on hold due to slow demand. Is that the only PHEV coming in 2014MY from VW group? Aside from Porsche that is. I believe they still plan the 918 and Panamera.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

VW FOIA, EPA 06/20/2017 2017-FFP_005751

To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 1/9/2013 4:59:35 PM
Subject: In-use vehicles scheduled for next week
parameters form.xlsx

HI, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

S108RXX-0047 (2010 VW/Jetta) - VIN# Ex. 6 0700 Vehicle Pick up on 1/15/13 (Tuesday)

S109RXX-0034 (2010 VW/Jetta) - VIN# Ex. 6 0900 Vehicle Pick up on 1/6/13 (Wednesday)

S108RXX-0014 (2010 VW/Jetta) - VIN# Ex. 6 0900 Vehicle Pick up on 1/17/13 (Thursday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

VW FOIA, EPA 06/20/2017 2017-FFP_005752

To: Jim Snyder/AA/USEPA/US@EPA[]
Cc: David Good/AA/USEPA/US@EPA;"Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
From: "Thomas, Richard (EEO)"
Sent: Thur 1/10/2013 1:54:52 PM
Subject: 2013 Beetle Convertible automatic Fuel Economy
winmail.dat

Hello Jim;

I spoke with Dave Good earlier this week, regarding the fuel economy labeling for the Beetle Convertible TDI automatic, he asked me to additionally contact you. As you know the replacement fuel economy data vehicle for the Beetle Convertible TDI automatic, will be confirmed at your facility in March 2013. Unfortunately, it comes late with regard to the port release of this model as several orders have been sold but not delivered. This Beetle Convertible TDI automatic model is on hold, pending the fuel economy label.

We wish to label this model with the new data vehicle and Wolfsburg results. If required, after confirmatory testing has been completed and a relabel is required because of lower EPA test results, we will complete a relabel in March. We will offer a voluntary lower highway result for this vehicle model type, I do not think a relabel will be necessary.

Dave did not seem to have any concerns, but you were involved with the discussions on this model, so I request that if you see any difficulties with this plan, please let me know. Is there any way we can use a voluntary lower specific fuel economy label prior to the Verify system coming back on line on January 14th?

Best regards,
Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com<mailto:Richard.Thomas@VW.com>

VW FOIA, EPA 06/20/2017 2017-FFP_005753

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Fri 1/11/2013 2:02:54 PM
Subject: RE: In-use vehicles scheduled for next week
parameters form_ Ex. 6 S109RXX-0034.xlsx
parameters form_ S108RXX-0014.xlsx
parameters form_ S108RXX-0047.xlsx
Sebastian.berenz@vw.com

Hello Lynn,

Attached you will find the test requests for the three cars you bring in next week.

I filled everything out and we will instruct URS how to deactivate the ABS system to operate the vehicle on the dyno and how to drain the vehicles and refill.

All cars do not need any canister loading, since they are Diesel vehicles.

It would be great if URS could let us when we can come in to inspect the cars in Ann Arbor.

Please let me know if you have any questions.

Thank you very much.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, January 09, 2013 12:00 PM
To: Berenz, Sebastian (EEO)
Subject: In-use vehicles scheduled for next week

HI, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

S108RXX-0047 (2010 VW/Jetta) - VIN# Ex. 6 0700 Vehicle Pick up on 1/15/13 (Tuesday)

S109RXX-0034 (2010 VW/Jetta) - VIN# 0900 Vehicle Pick up on 1/6/13 (Wednesday)

S108RXX-0014 (2010 VW/Jetta) - VIN# 0900 Vehicle Pick up on 1/17/13 (Thursday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)

VW FOIA, EPA 06/20/2017 2017-FFP_005756

National Vehicle and Fuel Emissions Laboratory
2565 Plymouth Road, Ann Arbor, Michigan 48105

EPA Parameters Form 1000-01 for In-Use Testing

EPA Vehicle Control Number: S109RXX-0034

Equivalent Test Weight: 3625.0 Pounds (Integer Only: Equivalent Test Weight)

Nominal Fuel Tank Capacity: 14.5 Gallons **40% Fill** 5.8 Gallons

Drive Axle: 3 (Select number from list below)

1 Rear Drive Str Left
2 Rear Drive Str Right
3 Front Drive Str Left
4 Front Drive Str Right
5 Four Wheel Drive Str Left
6 Four Wheel Drive Str Right
7 Rear Drive Off Road
9 Other
10 4-Wheel Drive
11 2-Wheel Drive, Front
12 2-Wheel Drive, Rear
13 Part-time 4-Wheel Drive
15 All Wheel Drive

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A 35.00 Lb-force

B 0.1800 Lb-force*mph

C 0.01930 Lb-force*mph^2

Canister Working Capacity:

N.A. Grams (Integer Only: Canister Working Capacity)

N.A. Number of Canisters (Integer Only: Number of Canisters)

N.A. Total Canister Volume (cm3)

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

Normal start without any switches used.

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process: N.A. Diesel vehicle

Fuel Draining Process: will be instructed during inspection

ABS Disabling Process: will be instructed during inspection

Fuel Switch Process (Flex Fuel only): N.A.

Comments: VW engieers will instruct EPA personel who to drain and refill and deactivate the ABS when inspecting the vehicles.

For internal EPA Use Only:

This information was obtained from:

* Letter, e-mail, fax or other document delivered from the manufacturer
  (attach any additional information from the manufacturer to this form)
* Verbal instruction from the manufacturer's representative
* Other (specify)

Manufacturer Representative: Sebastian Berenz *Date:* 1/9/2013

EG&G Representative: _____ *Date:* _____

EPA Representative: _____ *Date:* _____

National Vehicle and Fuel Emissions Laboratory
2565 Plymouth Road, Ann Arbor, Michigan 48105

EPA Parameters Form 1000-01 for In-Use Testing

EPA Vehicle Control Number: S108RXX-0014

Equivalent Test Weight: 3625.0 Pounds (Integer Only: Equivalent Test Weight)

Nominal Fuel Tank Capacity: 14.5 Gallons **40% Fill** 5.8 Gallons

Drive Axle: 3 (Select number from list below)

1 Rear Drive Str Left
2 Rear Drive Str Right
3 Front Drive Str Left
4 Front Drive Str Right
5 Four Wheel Drive Str Left
6 Four Wheel Drive Str Right
7 Rear Drive Off Road
9 Other
10 4-Wheel Drive
11 2-Wheel Drive, Front
12 2-Wheel Drive, Rear
13 Part-time 4-Wheel Drive
15 All Wheel Drive

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A 35.00 Lb-force

B 0.1800 Lb-force*mph

C 0.01930 Lb-force*mph^2

Canister Working Capacity:

N.A. Grams (Integer Only: Canister Working Capacity)

N.A. Number of Canisters (Integer Only: Number of Canisters)

N.A. Total Canister Volume (cm3)

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

Vehicle Starting Instructions, including Traction Control disabling:

Normal start without any switches used.

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process: N.A. Diesel vehicle

Fuel Draining Process: will be instructed during inspection

ABS Disabling Process: will be instructed during inspection

Fuel Switch Process (Flex Fuel only): N.A.

Comments: VW engieers will instruct EPA personel who to drain and refill and deactivate the ABS when inspecting the vehicles.

For internal EPA Use Only:

This information was obtained from:

* Letter, e-mail, fax or other document delivered from the manufacturer
  (attach any additional information from the manufacturer to this form)
* Verbal instruction from the manufacturer's representative
* Other (specify)

Manufacturer Representative: Sebastian Berenz *Date:* 1/9/2013

EG&G Representative: _____ *Date:* _____

EPA Representative: _____ *Date:* _____

National Vehicle and Fuel Emissions Laboratory
2565 Plymouth Road, Ann Arbor, Michigan 48105

EPA Parameters Form 1000-01 for In-Use Testing

EPA Vehicle Control Number: S108RXX-0047

Equivalent Test Weight: 3750.0 Pounds (Integer Only: Equivalent Test Weight)

Nominal Fuel Tank Capacity: 14.5 Gallons **40% Fill** 5.8 Gallons

Drive Axle: 3 (Select number from list below)

1 Rear Drive Str Left
2 Rear Drive Str Right
3 Front Drive Str Left
4 Front Drive Str Right
5 Four Wheel Drive Str Left
6 Four Wheel Drive Str Right
7 Rear Drive Off Road
9 Other
10 4-Wheel Drive
11 2-Wheel Drive, Front
12 2-Wheel Drive, Rear
13 Part-time 4-Wheel Drive
15 All Wheel Drive

Mfr. Shift Schedule (if required) FTP HWY US06

Vehicle Target Road-Load Coefficients

A 35.00 Lb-force

B 0.1800 Lb-force*mph

C 0.01930 Lb-force*mph^2

Canister Working Capacity:

N.A. Grams (Integer Only: Canister Working Capacity)

N.A. Number of Canisters (Integer Only: Number of Canisters)

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Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? N (Y/N)

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* Letter, e-mail, fax or other document delivered from the manufacturer
  (attach any additional information from the manufacturer to this form)
* Verbal instruction from the manufacturer's representative
* Other (specify)

Manufacturer Representative: Sebastian Berenz *Date:* 1/9/2013

EG&G Representative: _____ *Date:* _____

EPA Representative: _____ *Date:* _____

To: "Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
Cc: CN=Bernd Liebner/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Fri 1/11/2013 6:27:43 PM
Subject: RE: In-use vehicles scheduled for next week
Sebastian.berenz@vw.com

HI, Sebastian.

You are welcome to the maintenance, as usual. Has **Ex. 6** of URS called you about the the times for the maintenances yet?

I understand that you will instruct URS how to deactivate the ABS system and drain and refill the vehicles. We would also like to have written instructions that we can post in the vehicles and refer to if we have questions. I do not need these before the maintenances but please bring them with you when you come for the maintenances.

Have a great weekend!

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 01/11/2013 09:03 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

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I filled everything out and we will instruct URS how to deactivate the ABS system to operate the vehicle on the dyno and how to drain the vehicles and refill.
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Please let me know if you have any questions.

Thank you very much.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, January 09, 2013 12:00 PM
To: Berenz, Sebastian (EEO)
Subject: In-use vehicles scheduled for next week

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preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

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Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)[attachment "parameters form_Ex. 6_S109RXX-0034.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_Ex. 6_S108RXX-0014.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_Ex. 6_S108RXX-0047.xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;"Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Fri 1/11/2013 8:19:27 PM
Subject: Re: 2013 Beetle Convertible automatic Fuel Economy
winmail.dat

Richard,

If you need to label a vehicle prior to Monday morning (when Verify comes back up) you can send us the label notification, a vehicle description, the fuel economy mpg values, etc in short letter to EPA.

Dave

From: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: David Good/AA/USEPA/US@EPA, "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
Date: 01/10/2013 08:55 AM
Subject: 2013 Beetle Convertible automatic Fuel Economy

Hello Jim;

I spoke with Dave Good earlier this week, regarding the fuel economy labeling for the Beetle Convertible TDI automatic, he asked me to additionally contact you. As you know the replacement fuel economy data vehicle for the Beetle Convertible TDI automatic, will be confirmed at your facility in March 2013. Unfortunately, it comes late with regard to the port release of this model as several orders have been sold but not delivered. This Beetle Convertible TDI automatic model is on hold, pending the fuel economy label.

We wish to label this model with the new data vehicle and Wolfsburg results. If required, after confirmatory testing has been completed and a relabel is required because of lower EPA test results, we will complete a relabel in March. We will offer a voluntary lower highway result for this vehicle model type, I do not think a relabel will be necessary.

Dave did not seem to have any concerns, but you were involved with the discussions on this model, so I request that if you see any difficulties with this plan, please let me know. Is there any way we can use a voluntary lower specific fuel economy label prior to the Verify system coming back on line on January 14th?

Best regards,
Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213

VW FOIA, EPA 06/20/2017 2017-FFP_005763

Fax: 248 754-4207
Richard.Thomas@VW.com<mailto:Richard.Thomas@VW.com>

VW FOIA, EPA 06/20/2017 2017-FFP_005764

To: Jim Snyder/AA/USEPA/US@EPA[]
From: "Giles, Michael (EEO)"
Sent: Fri 1/11/2013 8:33:02 PM
Subject: RE: VW Group Model Year 2014 SCR / AECD Approval Request for 3.0L TDI test group EADXJ03.04UG
snyder.jim@epa.gov
michael.giles@vw.com
Ex. 7 @arb.ca.gov
@arb.ca.gov
Leonard.Kata@vw.com
William.Rodgers@vw.com

Hi Jim,

We asked the factory, and the reply is that the EGR protection is present since MY 2011. To verify, I our the applications and the page 12 info that you referenced shows up starting with MY11 (for 3.0L TDI only).

Regards

Mike

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Wednesday, January 02, 2013 2:04 PM
To: Giles, Michael (EEO)
Subject: Re: VW Group Model Year 2014 SCR / AECD Approval Request for 3.0L TDI test group EADXJ03.04UG

Mike, I approved the AECD. I did notice a EGR protection listed (page 12) that I hadn't seen before. We have heard of this before but I don't recalll seeing in it previous VW/Audi AECDs. Is this the only engine with it or do the others have it too?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Giles, Michael (EEO)" <michael.giles@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA, [redacted]@arb.ca.gov>, Linc Wehrly/AA/USEPA/US@EPA
Cc: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>, "Rodgers, William (EEO)" <William.Rodgers@vw.com>
Date: 12/18/2012 02:57 PM
Subject: VW Group Model Year 2014 SCR / AECD Approval Request for 3.0L TDI test group EADXJ03.04UG

Hello Jim, Linc and [redacted]

Today we submitted a request for approval for SCR / AECD for our Model Year 14 3.0L TDI test group EADXJ03.04UG. This request is contained in a (single) PDF document including cover letter and supporting pages, submitted under the following names:

EPA VERIFY: CBI_EADXJ03.04UG_RFA_SCR_R00
ARB DMS: CBI_VOLK_CORRESP_RFA1SCR_ .PDF (see workflow 2014_CBI_VOLK_CORRESP_RFA1SCR_)

This MY 14 test group is based on the same engine used in current test groups for Q7 / Touareg but will now include several PC models (A6,A7,A8, A8L) as well as one light truck (Q5).

In addition, this test group will be amongst our first for MY14 certification, therefore we would kindly ask you to review this at your earliest convenience. Please contact me if you have any questions about this request.

Regards,
Mike
Michael Giles
Certification Specialist
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America
Phone +1-248-754-4229
FAX +1-248-754-4207

VW FOIA, EPA 06/20/2017 2017-FFP_005766

VOLKSWAGEN

GROUP OF AMERICA

EPA Surveillance Program

AVWXV02.05UN

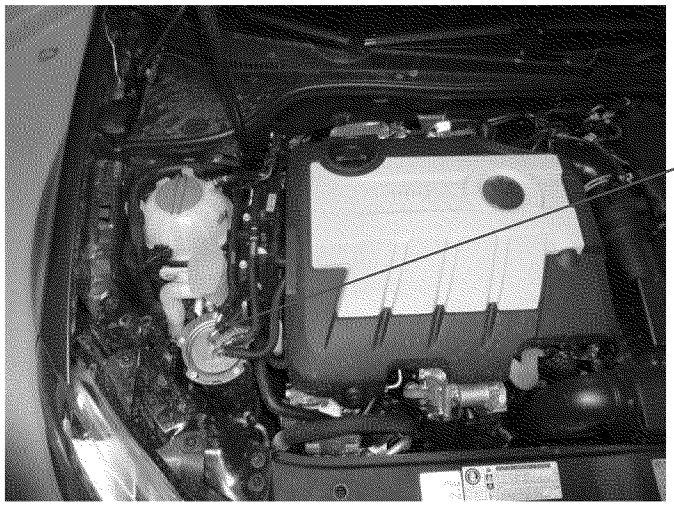
2.0 TDI M2010

Engineering & Environmental Office

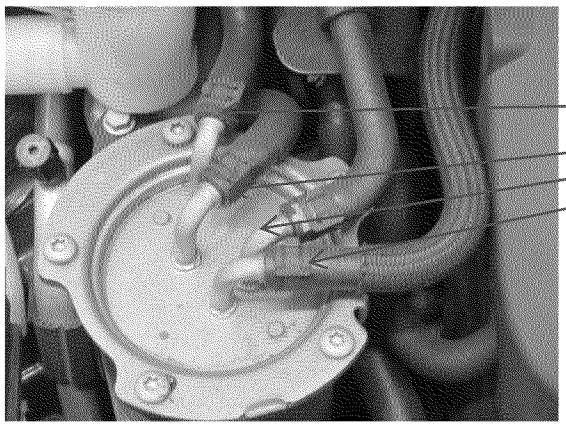


Fuel drain and refill

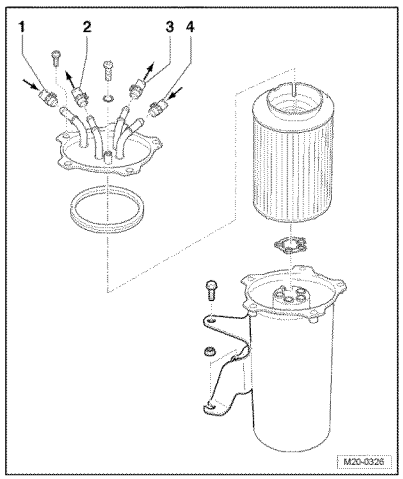
2.0 TDI M2010



Diesel fuel filter in the engine compartment.



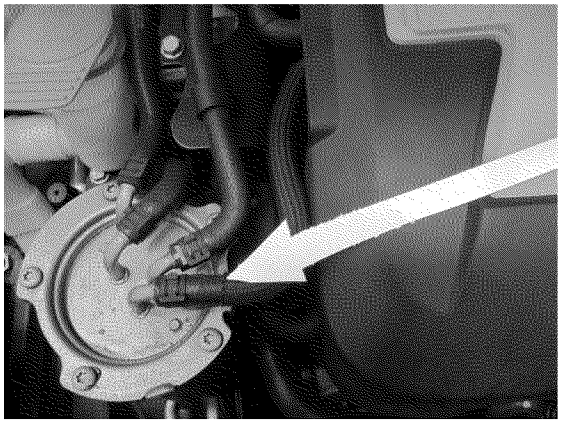
Fuel lines and fuel return lines



1. From Fuel Tank - Black
2. To Fuel Tank - Blue
3. To Auxiliary Fuel Pump - White
4. From Fuel Rail - Blue

Fuel drain and refill

2.0 TDI M2010



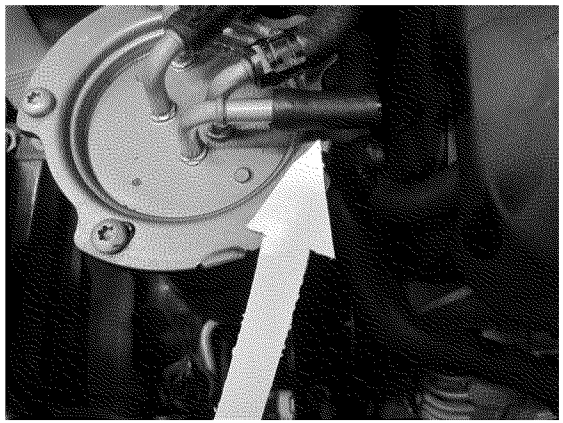
Loosen the clamp and unhook the return line.



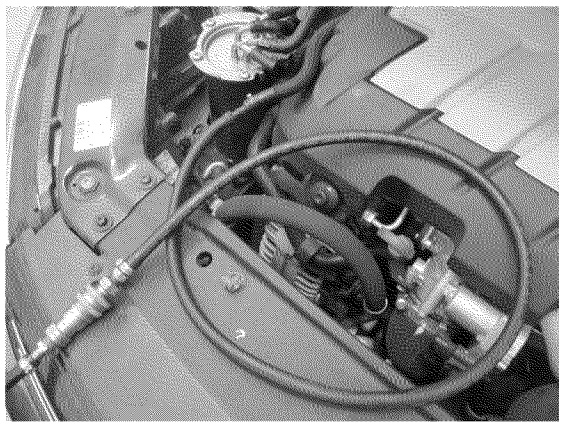
Hook up a line to your drain container.

Fuel drain and refill

2.0 TDI M2010



Seal the connection on the Diesel fuel filter to avoid any fuel spilling out.



Start engine and begin the system drain.

Fuel drain and refill

2.0 TDI M2010



Once zero miles is indicated in range display, you have one minute to shut off the engine.

Stalling the engine must absolutely be avoided.

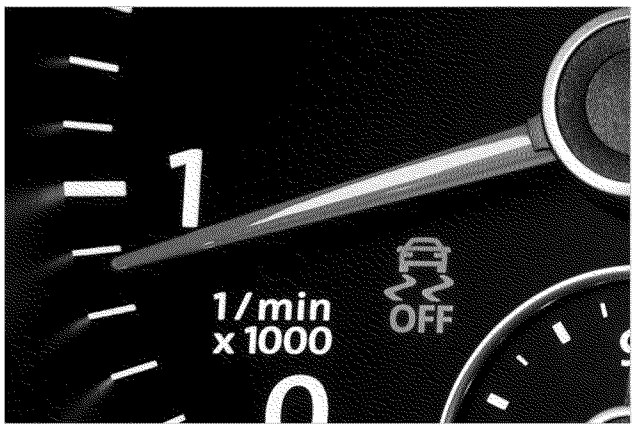
In the event of the engine stalling air will be introduced to the fuel system.

ESP deactivation

2.0 TDI M2010

IMPORTANT: This procedure must be repeated with every key cycle (engine off).

1. Remove foot from brake. Make sure all doors are closed during the procedure.
2. Key on with transmission in “P” (park) for 5 seconds.
   a) In case of manual transmission remove from gear.
3. Turn hazard lights on for 5 seconds.
4. Depress and release accelerator pedal 5 times all the way to the floor.
5. Look for solid ESP symbol.



6. If ESP symbol is solid, the engine must be started within 5 seconds.
7. Proceed with testing. Hazards can be turned off once engine is running.

To: David Good/AA/USEPA/US@EPA[]
Cc: Jim Snyder/AA/USEPA/US@EPA;"Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
From: "Thomas, Richard (EEO)"
Sent: Sat 1/12/2013 12:20:37 PM
Subject: RE: 2013 Beetle Convertible automatic Fuel Economy
Richard.Thomas@vw.com
Leonard.Kata@vw.com
mailto:Richard.Thomas@VW.com
image001.gif

Hi Dave;

It was successfully entered and accepted into Verify on Friday, Jan 11th, Volkswagen index 135. If you need more let me know.

Thanks

Richard

From: Good.David@epamail.epa.gov [mailto:Good.David@epamail.epa.gov]
Sent: Friday, January 11, 2013 3:19 PM
To: Thomas, Richard (EEO)
Cc: Snyder.Jim@epamail.epa.gov; Kata, Leonard (EEO)
Subject: Re: 2013 Beetle Convertible automatic Fuel Economy

Richard,

If you need to label a vehicle prior to Monday morning (when Verify comes back up) you can send us the label notification, a vehicle description, the fuel economy mpg values, etc in short letter to EPA.

Dave

"Thomas, Richard (EEO)" ---01/10/2013 08:55:52 AM---Hello Jim; I spoke with Dave Good earlier this week, regarding the fuel economy labeling for the Bee

From: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Cc: David Good/AA/USEPA/US@EPA, "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
Date: 01/10/2013 08:55 AM
Subject: 2013 Beetle Convertible automatic Fuel Economy

VW FOIA, EPA 06/20/2017 2017-FFP_005773

Hello Jim;

I spoke with Dave Good earlier this week, regarding the fuel economy labeling for the Beetle Convertible TDI automatic, he asked me to additionally contact you. As you know the replacement fuel economy data vehicle for the Beetle Convertible TDI automatic, will be confirmed at your facility in March 2013. Unfortunately, it comes late with regard to the port release of this model as several orders have been sold but not delivered. This Beetle Convertible TDI automatic model is on hold, pending the fuel economy label.

We wish to label this model with the new data vehicle and Wolfsburg results. If required, after confirmatory testing has been completed and a relabel is required because of lower EPA test results, we will complete a relabel in March. We will offer a voluntary lower highway result for this vehicle model type, I do not think a relabel will be necessary.

Dave did not seem to have any concerns, but you were involved with the discussions on this model, so I request that if you see any difficulties with this plan, please let me know. Is there any way we can use a voluntary lower specific fuel economy label prior to the Verify system coming back on line on January 14th?

Best regards,
Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com<mailto:Richard.Thomas@VW.com>

(See attached file: winmail.dat)

VW FOIA, EPA 06/20/2017 2017-FFP_005774

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: Bernd Liebner/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Mon 1/14/2013 4:31:35 PM
Subject: RE: In-use vehicles scheduled for next week
ESP_ABS deactivation.pdf
DrainRefill and ESP deactivation.pdf
Sebastian.berenz@vw.com
Sebastian.berenz@vw.com
http://www.volkswagen.com
Sohacki.Lynn@epamail.epa.gov
mailto:Sohacki.Lynn@epamail.epa.gov
Liebner.Bernd@epamail.epa.gov
Sebastian.Berenz@vw.com
Sebastian.berenz@vw.com
http://www.volkswagen.com
Sohacki.Lynn@epamail.epa.gov
mailto:Sohacki.Lynn@epamail.epa.gov
image001.gif

Hello Lynn,

hello Bernd,

Attached you will find an additional document that backs up the deactivation process of the ESP/ABS system of the cars you will test shortly.

I will bring the documents along and we will instruct the personnel on Tuesday.

The tricky part is, that the procedure needs to be repeated before every time the engine is turned on.

Let me know if you have any questions.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Berenz, Sebastian (EEO)
Sent: Friday, January 11, 2013 4:07 PM
To: Sohacki.Lynn@epamail.epa.gov
Cc: Liebner.Bernd@epamail.epa.gov
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the instruction to drain and refill the 2.0 TDI.

Also there is another instruction how to deactivate the ESP system. This is quite tricky and we will explain it to URS once we inspect the vehicles. It has to be repeated before every start. So we probably have to instruct a driver and operator too.

I will talk to Ex. 6 and check for the time he want us there.

Have a good weekend.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
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FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Friday, January 11, 2013 1:28 PM
To: Berenz, Sebastian (EEO)
Cc: Liebner.Bernd@epamail.epa.gov
Subject: RE: In-use vehicles scheduled for next week

HI, Sebastian.

You are welcome to the maintenance, as usual. Has **Ex. 6** of URS called you about the the times for the maintenances yet?

I understand that you will instruct URS how to deactivate the ABS system and drain and refill the vehicles. We would also like to have written instructions that we can post in the vehicles and refer to if we have questions. I do not need these before the maintenances but please bring them with you when you come for the maintenances.

VW FOIA, EPA 06/20/2017 2017-FFP_005777

Have a great weekend!

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---01/11/2013 09:03:59 AM---Hello Lynn, Attached you will find the test requests for the three cars you bring in next week.

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 01/11/2013 09:03 AM
Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the test requests for the three cars you bring in next week.

I filled everything out and we will instruct URS how to deactivate the ABS system to operate the vehicle on the dyno and how to drain the vehicles and refill.
All cars do not need any canister loading, since they are Diesel vehicles.

It would be great if URS could let us when we can come in to inspect the cars in Ann Arbor.

Please let me know if you have any questions.

Thank you very much.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance
Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, January 09, 2013 12:00 PM
To: Berenz, Sebastian (EEO)
Subject: In-use vehicles scheduled for next week

HI, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

S108RXX-0047 (2010 VW/Jetta) - VIN# Ex. 6 0700 Vehicle Pick up on 1/15/13 (Tuesday)

S109RXX-0034 (2010 VW/Jetta) - VIN# 0900 Vehicle Pick up on 1/6/13 (Wednesday)

S108RXX-0014 (2010 VW/Jetta) - VIN# 0900 Vehicle Pick up on 1/17/13 (Thursday)

Please use the form to send testing information to me for these vehicles before pick-up. Return the attached form in excel format so that the values may be automatically transferred to our testing network.

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

I will pass this information along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: parameters form.xlsx)[attachment "parameters form_Ex. 6 S109RXX-0034.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_Ex. 6 S108RXX-0014.xlsx" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "parameters form_Ex. 6 S108RXX-0047.xlsx" deleted by Lynn Sohacki/AA/USEPA/US]

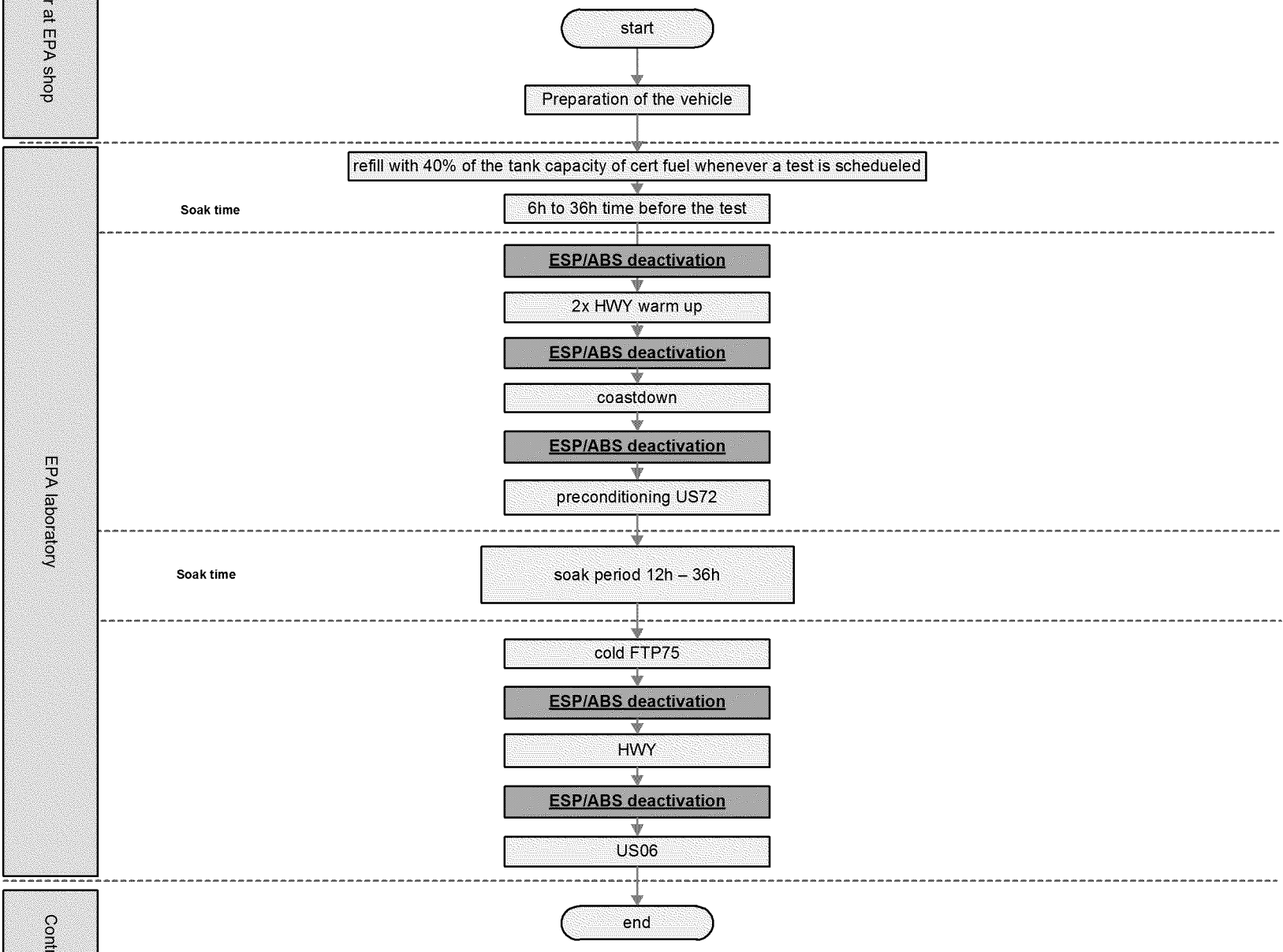
VOLKSWAGEN
GROUP OF AMERICA

AVWXV02.05UN
2.0 TDI M2010

IMPORTANT:
This procedure must be repeated with every key cycle (engine off).
Don't open the driver door while the procedure is active. It will interrupt the EPS/ABS deactivation.

ESP/ABS deactivation

* * Remove foot from brake. Make sure all doors are closed during the procedure.
* * Key on with transmission in "P" (park) for 5 seconds.
* * In case of manual transmission remove from gear.
* * Turn hazard lights on for 5 seconds.
* * Depress and release accelerator pedal 5 times all the way to the floor.
* * Look for solid ESP symbol.
* * If ESP symbol is solid, the engine must be started within 5 seconds.
* * Proceed with testing. Hazards can be turned off once engine is running.



VWGoA
EEO
Date: 01/14/2013

To: Lynn Sohacki/AA/USEPA/US@EPA;Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[]
Cc: "Glas, Tobias (EASZ/1)" [tobias.glas@volkswagen.de]; Horton, Garett" [Garett.Horton@vw.com]
From: "Berenz, Sebastian (EEO)"
Sent: Wed 1/16/2013 1:54:32 PM
Subject: EPA Surveillance Program AVWXV02.0U5N
DrainRefill and ESP deactivation.pdf
ESP_ABS deactivation.pdf
Sebastian.berenz@vw.com

Hello Lynn,

Hello Bernd,

Here is the revision of the presentations that will explain the deactivation of the ESP/ABS system of the cars you will test shortly. I made all the change that were discussed yesterday.

Let me know if there is nay questions.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

VW FOIA, EPA 06/20/2017 2017-FFP_005781

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

VW FOIA, EPA 06/20/2017 2017-FFP_005782

VOLKSWAGEN

GROUP OF AMERICA

EPA Surveillance Program

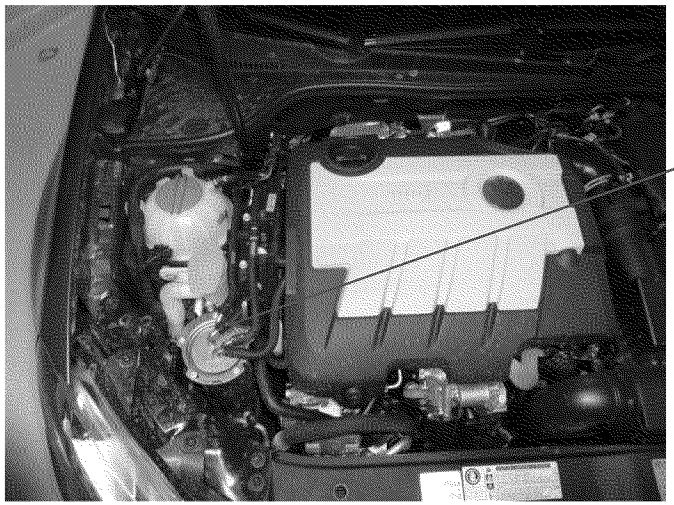
AVWXV02.0U5N

2.0 TDI M2010

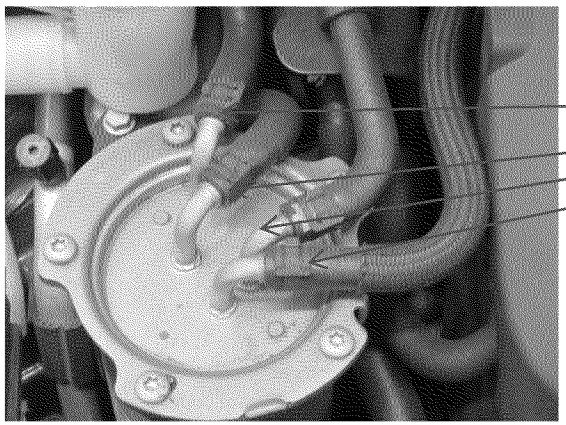
Engineering & Environmental Office

Fuel drain and refill

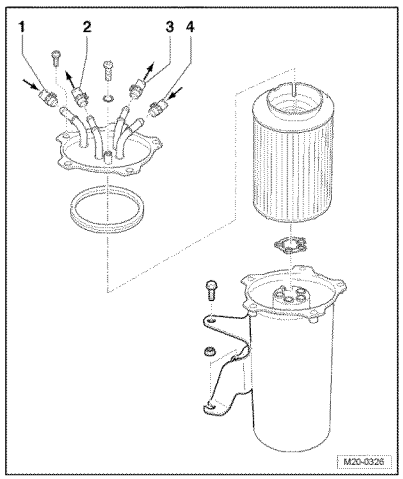
2.0 TDI M2010



Diesel fuel filter in the engine compartment.



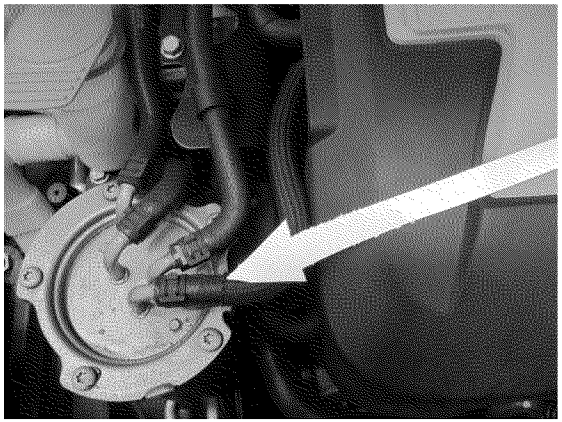
Fuel lines and fuel return lines



1. From Fuel Tank - Black
2. To Fuel Tank - Blue
3. To Auxiliary Fuel Pump - White
4. From Fuel Rail - Blue

Fuel drain and refill

2.0 TDI M2010



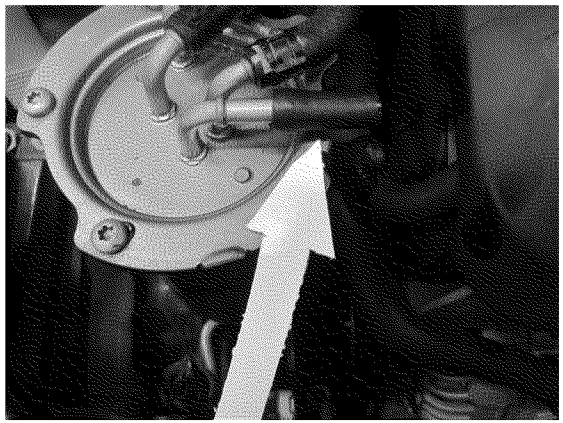
Loosen the clamp and unhook the return line.



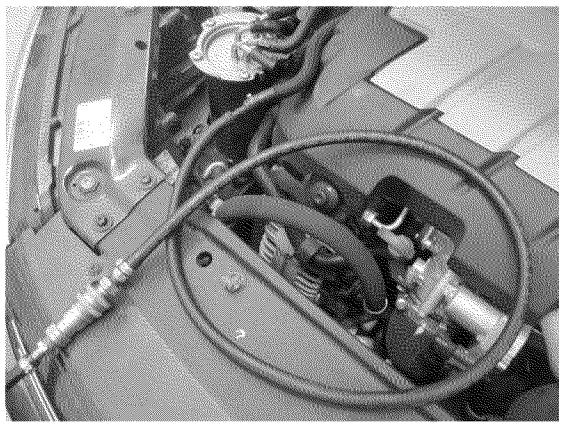
Hook up a line to your drain container.

Fuel drain and refill

2.0 TDI M2010



Seal the connection on the Diesel fuel filter to avoid any fuel spilling out.



Start engine and begin the system drain.

Fuel drain and refill

2.0 TDI M2010



Once zero miles is indicated in range display, you have one minute to shut off the engine.

Stalling the engine must absolutely be avoided.

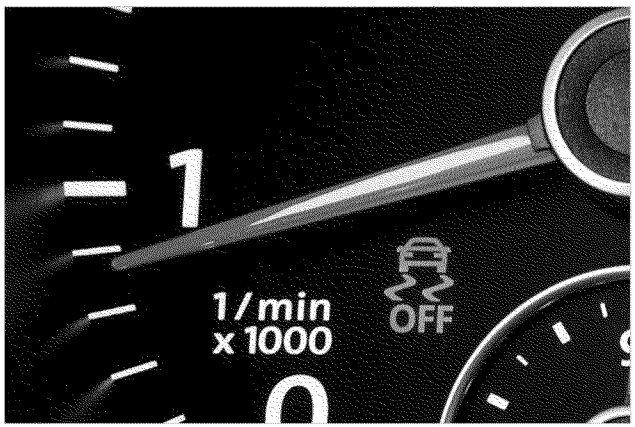
In the event of the engine stalling air will be introduced to the fuel system.

ESP deactivation

2.0 TDI M2010

IMPORTANT: This procedure must be repeated with every key cycle (engine off).

1. Remove foot from brake. Make sure all doors are closed during the procedure.
2. Key on with transmission in “P” (park) for 5 seconds. **Do not start engine!!!!**
   a) In case of manual transmission remove from gear.
3. Turn on hazard lights, immediately after 5 flashes proceed to next step.
4. Depress and release accelerator pedal 5 times all the way to the floor.
5. Look for solid ESP symbol. **Should not blink!!!**



6. If ESP symbol is solid, depress brake (and clutch) and continue with starting the engine. The engine **must be started** within 5 seconds.
7. Proceed with testing.
8. Hazards can be turned off once engine is running. ESP symbol will disappear after hazards are turned off.

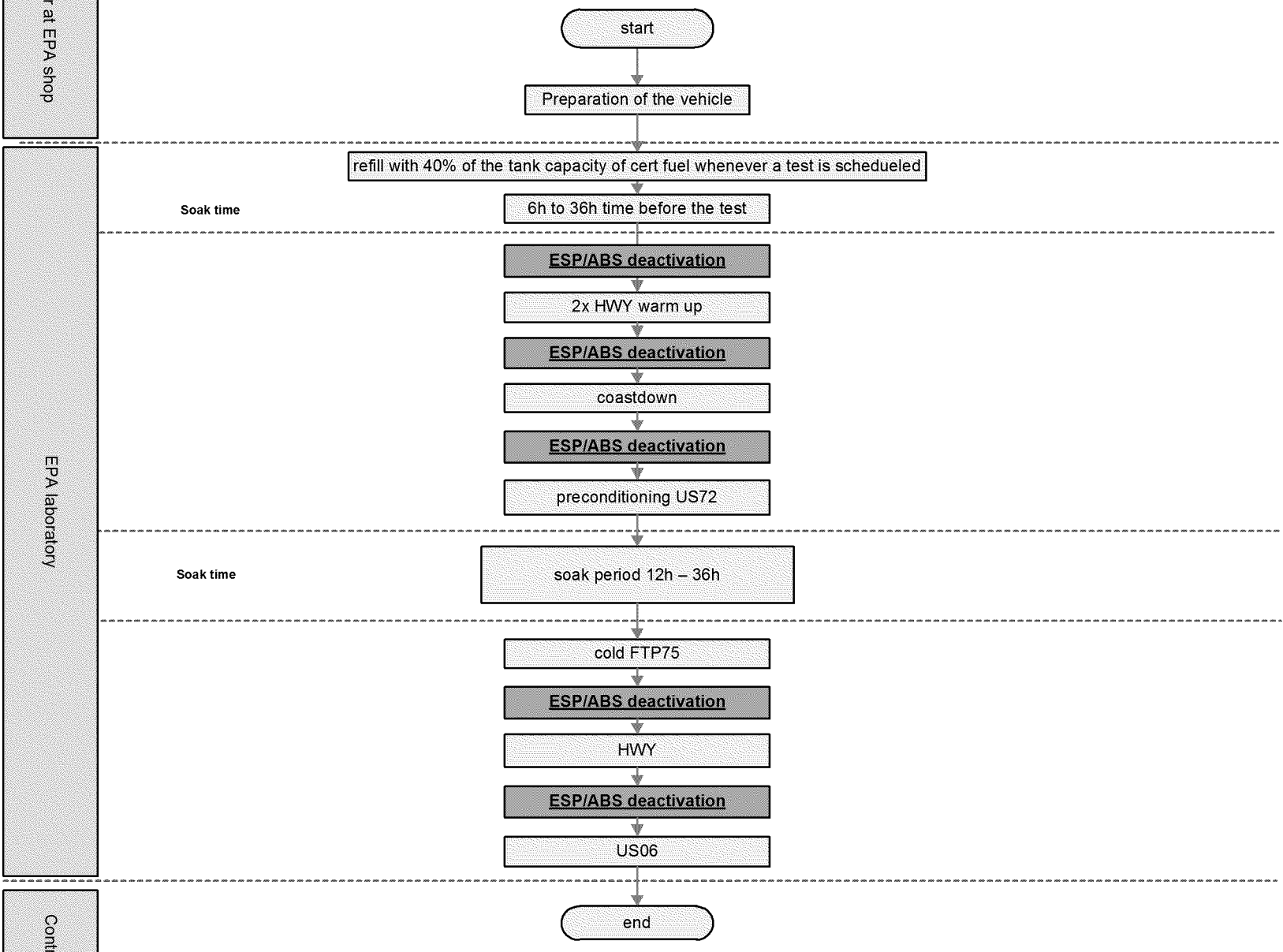
VOLKSWAGEN
GROUP OF AMERICA

AVWXV02.0U5N
2.0 TDI M2010

IMPORTANT:
This procedure must be repeated with every key cycle (engine off).
Don't open the driver door while the procedure is active. It will interrupt the EPS/ABS deactivation.

ESP/ABS deactivation

- Remove foot from brake. Make sure all doors are closed during the procedure.
- Key on with transmission in "P" (park) for 5 seconds. **Do not start engine!!!!**
- In case of manual transmission remove from gear.
- Turn on hazard lights, immediately after 5 flashes proceed to next step.
- Depress and release accelerator pedal 5 times all the way to the floor.
- Look for solid ESP symbol. **Should not blink!!!**
- If ESP symbol is solid, depress brake (and clutch) and continue with starting the engine. The engine **must be started** within 5 seconds.
- Proceed with testing.
- Hazards can be turned off once engine is running. ESP symbol will disappear after hazards are turned off.



VWGoA
EEO
Date: 01/16/2013

To: leonard.kata@vw.com[]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;oliver.schmidt@vw.com[];
liver.schmidt@vw.com[]
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Tue 1/22/2013 2:37:58 PM
Subject: Electric Vehicle templates attached
2013 generic EV Label calculations-1-18-13.xlsm
EV Verify Rel 9and10-Charge Depleting example data.8-9-2012.pdf
PHEV - Verify Rel9-Charge Depleting example data-2-10-2011.pdf

Len,

In the VW/EPA meeting on 10/30/2012, you asked if we could send you an EV and a PHEV calculator template.

Attached is an EV calculator---sorry it took so long for me to respond, but I needed 2-3 hours to clean it up a.bit (and I didn't find the time until last Friday). The template calculates derived 5-cycle label values and "Capped" label values (which are capped at a maximum 30% downward in-use adjustment factor)---per EPA policy for EVs. The template seemed to work OK for one EV manufacturer----let me know if you see any errors or have any questions.

I have a PHEV calculator that worked well for Fisker (non blended PHEV), but still need to clean it up a little. I'll try to send it to you this morning or so.

Also attached are example templates for entering charge depleting data into EPA's Verify data base.

Please call if you have questions.

Dave

VW FOIA, EPA 06/20/2017 2017-FFP_005790

Derived 5-cycle MPG Calculations For Electric Vehicles

Please Enter:

Model Year: 2014

Manufacturer Name: xxxxxxx

Model Name yyyyyyyy

Test Date: xx/yy/2013

Values in Yellow fill are used on FE Labels (window stickers)

I. Calculate Electric vehicle FE Label city, Hwy, Combined FE values using the 2008 (derived 5-cycle) method and the 30% cap method:

Enter unadjusted unrounded kW-hr/100mi Values (in red text blocks) as determined from SAE J1634:

		City (round mpg to 0.1mpg)	Highway (round mpg to 0.1mpg)	Combined Calculated unadjusted combined	Units
Elect veh FE	unrounded kW-hr/100 mi	25.3900	29.3125	27.1551	kW-hr/100 mi
Elect veh FE	converted to mpg	**132.7**	**115.0**	124.1044	mpg

2008 FE Label method (Derived 5-cycle)

	Derived 5-cycle City	Derived 5-cycle Hwy	Adjusted Combined	Units
Calculate derived 5-cycle mpg:	**82.3**	**76.4**	**79.5**	mpg
convert back to kW-hr/100 mi:	**41.0**	**44.1**	**42.4**	**kW-hr/100 mi Derived 5-cycle**
Percent adjustment mpg:	**38.0%**	**33.6%**	**35.9%**	percent
MPG w/ 30% Cap	92.9	80.5	86.8731	MPGe with 30 % Cap
convert back to kW-hr/100 mi:	36.2849	41.8696	38.7980	kW-hr/100 mi w/30 % Cap
			38.8	
2014 Label Values:				
Rounded MPG w/30% cap:	93	80	87	
Rounded kW=hr/100 mi:	36	42	39	

II. Calculate Electric vehicle driving ranges using the unadjusted SAE J1634 method and the 2008 (derived 5-cycle) method:

Enter unadjusted City & Hwy Range Values in miles (in red text blocks) as determined from SAE J1634:

	City Range	Hwy Range	Combined Range	Rounded Range	Units	Method:
Calculate unadjusted driving range:	111.293	89.42	101.4502	101	miles	Unadjusted (SAE J1634)
Calculate adjusted driving range (2008 method, No Cap):	69.0	59.4	64.9879	65	miles	2008 (derived 5-cycle, mpg-based, No Cap)
Calculate adjusted driving range (2008 method, 30% Cap):	77.9	62.6	71.0151	71	miles	2008 (derived 5-cycle, mpg-based, 30% Cap)

III. Calculate Electric vehicle annual fuel cost and 5-year savings, per 40 CFR 600.311-12(e)

2008 MPG Factors:

ref. 40 CFR 600.210-08

City Intercept:	0.00326
City Slope:	1.1805
Hwy Intercept:	0.00138
Hwy Slope:	1.3466

Petroleum Equivalency Factor for electricity; ref 10 CFR 474.3

33,705 watt-hr/gallon w/o 6.667 CAFE incentive no fuel fired accessories

Enter Average 2014 5-year Fuel Cost: $11,500

Enter U.S. electricity costs: $0.12 per kw-hr (from CD-12-18 for 2014)

Calculate unrounded adjusted combined miles/kw-hr: 2.57745 mi/kw-hr

Annual Miles	Cost	Units	Unrounded Annual Fuel Cost*	Method	2014 Label Rounded Annual Fuel Cost	2014 Label 5-year Amount You Save:
15,000	$0.12	per kw-hr	$763.20	2008 (derived 5-cycle, mpg-based, No Cap)	$750.00	$7,750
15,000	$0.12	per kw-hr	$698.36	2008 (derived 5-cycle, mpg-based, 30% Cap)	$700.00	$8,000

*Note: Annual fuel costs should be ASTM rounded to the nearest $50.

Example - Charge Depleting Data for an Electric Vehicle

U.S. Environmental Protection Agency

Verify: Engine and Vehicle Compliance System

Welcome, David Good. Today is Monday, November 28, 2011 (ET)

Test Information Details

Test Information | EPA Tab

General Information

Process Code	Correction Submission	Mfr Code	MTX - Mitsubishi Motors Corporation
Test Number	CMTX10016275	Exhaust Evap Test Number Link	
Vehicle ID / Configuration	EB12-EM21 / 0	Test Date	2011-06-15

EPA Only Fields

Dataset Status	Active	Submission Date	11/21/2011
Test Category	Charge Depleting	LOD Test Number	
EPA Dyno Number		Test 5-Cycle Category	Not 5-Cycle

Test Particulars

Test Procedure	81 - Charge Depleting UDDS	Test Fuel Type	62 - Electricity
Verify Test Lab ID	1	Odometer Units	M
Test Start Odometer Reading	300	4WD Test Dyno	No
State of Charge Delta Indicator	No		
Fuel Batch Mfr Code	MTX	Fuel Batch ID	MOKZEV
Fuel Batch Calibration Number	1101	Diesel Adjustment Factor Usage	Downward
Retest Indicator	No	Retest Reason	N/A
Verify Test Number That Was Retested		Manufacturer Confirmatory Test?	No
Original Manufacturer Verify-Test Number That Was Confirmed			

Analytically-Derived FE / CREE

Analytically Derived?	No	ADFE Base Verify Test Number	
ADFE Total Road Load Horsepower	N/A	ADFE ETW	N/A
ADFE N/V Ratio	N/A		

Please enter (Unadjusted test data.)

PHEV/Charge Depleting Test Information

Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	18.3012
Charge Depleting Range (Calculated miles)	97.935	Charge Depleting Range (Actual miles)	97.935
Equivalent All Electric Range (miles)	97.935	Number of Charge Depleting Bags / Phases Conducted	1
Fuel Economy Value Units	miles per gallon		

Please be sure to enter units of mpg

Test Results

UDDS/Highway/US06 Bag/Phase Number 1

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value
ACT-DISTANCE (Actual Distance Driven (miles))	97.935	–
AMP-HRS (Integrated Amp-hours)	0	–
AS-VOLT (Average System Voltage)	0	–
CO (Carbon Monoxide)	0	–
CO2 (Carbon dioxide)	0	–
CREE (Carbon-Related Exhaust Emissions)	0	–
END-SOC (System End State of Charge	0	–

Amp ~~Watt~~-hours)		
HC-TOTAL (Total Hydrocarbon)	0	
MFR FE (Manufacturer Fuel Economy)	180.4	180.4
NOX (Nitrogen Oxide)	0	
START-SOC (System Start State of Charge Amp ~~Watt~~-hours)	0	

Note: Verify doesn't perform this calculation. Verify currently defaults to the mfr's value

Verify-Calculated Fields

System Miles 289

Fuel Economy

Unrounded Unadjusted Fuel Economy	--	Rounded Unadjusted Fuel Economy	--
Unrounded Adjusted Fuel Economy	--	Rounded Adjusted Fuel Economy	--

CREE / OPT-CREE

Unrounded Unadjusted CREE	--	Rounded Unadjusted CREE	--
Unrounded Adjusted CREE	--	Rounded Adjusted CREE	--
Unrounded Unadjusted OPT-CREE	--	Rounded Unadjusted OPT-CREE	--
Unrounded Adjusted OPT-CREE	--	Rounded Adjusted OPT-CREE	--

Manufacturer Test Comments

This is official EPA confirmatory data. (Temporarily, inputted by Mfr.) UDDS AER(mile):97.935 , AC Energy(kWh/100mile):18.6705

View Related Confirmatory Test Decision Information

$$\text{MFR FE} = \frac{33{,}705\ \left(\frac{\text{kW-hr}}{\text{gal}}\right) \times \text{charge depleting range (miles)}}{\text{Recharge Event Energy (kW-hr)}}$$

ASTM Round to tenths
(units are MPGe)

U.S. Environmental Protection Agency

Verify: Engine and Vehicle Compliance System

Record Number:

< >

of 0

Search

Search Results

Fuel Properties Details

General Information

Mfr Code	MTX	Fuel Batch Id	MOKZEV
Submission Date	11/20/2011		
Fuel Calibration Number	1101	Test Fuel Type	62 - Electricity
Fuel Batch Calibration Effective Date	2011-05-23	Fuel Batch Calibration Ineffective Date	
Fuel Batch Calibration Date	2011-03-01		
Carbon Weight Fraction NMHC		Carbon Weight Fraction HC	
Exhaust Carbon Weight Fraction			
Fuel Methanol Volume Fraction		Fuel Density	
Fuel Specific Gravity		Fuel Net Heating Value	
Fuel Blend Carbon Weight Fraction		Weight Fraction CO2	

View Related Test Datasets

Example - Charge Depleting Data for a PHEV

U.S. Environmental Protection Agency

Verify: Engine and Vehicle Compliance System

Welcome, David Good. Today is Tuesday, February 07, 2012 (ET)

Test Information Details

Test Information | EPA Tab

General Information

Process Code	Correction Submission	Mfr Code	GMX - General Motors LLC
Test Number	CGMX10017746	Exhaust Evap Test Number Link	
Vehicle ID / Configuration	141DRN4804 / 1	Test Date	2011-11-04

EPA Only Fields

Dataset Status	Active	Submission Date	01/04/2012
Test Category	Charge Depleting	LOD Test Number	
EPA Dyno Number		Test 5-Cycle Category	Not 5-Cycle

Test Particulars

Test Procedure	81 - Charge Depleting UDDS	Test Fuel Type	62 - Electricity
Verify Test Lab ID		Odometer Units	M
Test Start Odometer Reading	5038	4WD Test Dyno	No
State of Charge Delta Indicator	Yes		
Fuel Batch Mfr Code		Fuel Batch ID	
Fuel Batch Calibration Number		Diesel Adjustment Factor Usage	Downward
Retest Indicator	No	Retest Reason	N/A
Verify Test Number That Was Retested		Manufacturer Confirmatory Test?	No
Original Manufacturer Verify-Test Number That Was Confirmed			

Analytically-Derived FE / CREE

Analytically Derived?	No	ADFE Base Verify Test Number	
ADFE Total Road Load Horsepower	N/A	ADFE ETW	N/A
ADFE N/V Ratio	N/A		

PHEV/Charge Depleting Test Information

Recharge Event Voltage	~~240~~	Recharge Event Energy (kiloWatt-hours)	~~13.819~~
Charge Depleting Range (Calculated miles)	56.48	Charge Depleting Range (Actual miles)	56.48
Equivalent All Electric Range (miles)	55.85	Number of Charge Depleting Bags / Phases Conducted	9
Fuel Economy Value Units	miles per gallon		

Please enter Reda (calculated range to the calculated transition point in 2 places) per SAE J1711 page 47-48

Please be sure to enter units of mpg.

Test Results

UDDS/Highway/US06 Bag/Phase Number 1

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value
ACT-DISTANCE (Actual Distance Driven (miles))	7.439	–
AMP-HRS (Integrated Amp-hours)	3.953	–
AS-VOLT (Average System Voltage)	384.77	–
CO (Carbon Monoxide)	0	–
CO2 (Carbon dioxide)	0	–
CREE (Carbon-Related Exhaust Emissions)	0	–
END-SOC (System End State of Charge (~~Amp-Watt~~ hours)	3.953	–
FE BAG 1 (Bag 1 Fuel Economy)	0	0
FE BAG 2 (Bag 2 Fuel Economy)	0	0

Please enter CARB value

Cumulative

Should be zero for series PHEVs, but not zero for parallel (blended) hybrids

Please enter CO_2, CREE & MFR FE in Phase 1 for the entire charge depleting test sequence (up to the transition point where the vehicle becomes charge sustaining)

see note on page 2

MFR FE = 33.705 (kW-hr/gal) × Charge Depleting Range (miles) / Recharge Event Energy (kW-hr)

ASTM rounded to tenths (units are MPGe)

See note on page 1 – please enter MFR FE in Phase 1 for the entire test sequence

HC-NM (Non-methane Hydrocarbon)	0	–
HC-TOTAL (Total Hydrocarbon)	0	–
METHANE (CH4 - Methane)	0	–
MFR FE (Manufacturer Fuel Economy)	137.8	137.8
NMOG (Non-methane organic gas (California))	0	–
NOX (Nitrogen Oxide)	0	–
START-SOC (System Start State of Charge Amp Watt-hours)	0	–

UDDS/Highway/US06 Bag/Phase Number 2

Please include FE Bag 1 and FE Bag 2 for all phases, where:

- FE Bag 1 = the gasoline-only fuel economy for each phase
- FE Bag 2 = 0 (needed for a business rule)

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value
ACT-DISTANCE (Actual Distance Driven (miles))	7.453	–
AMP-HRS (Integrated Amp-hours)	7.809	–
AS-VOLT (Average System Voltage)	378.24	–
CO (Carbon Monoxide)	0	–
END-SOC (System End State of Charge Amp Watt-hours)	7.809	–
FE BAG 1 (Bag 1 Fuel Economy)	0	0
FE BAG 2 (Bag 2 Fuel Economy)	0	0
HC-NM (Non-methane Hydrocarbon)	0	–
HC-TOTAL (Total Hydrocarbon)	0	–
METHANE (CH4 - Methane)	0	–
MFR FE (Manufacturer Fuel Economy)	0	0
NMOG (Non-methane organic gas (California))	0	–
NOX (Nitrogen Oxide)	0	–
START-SOC (System Start State of Charge Amp Watt-hours)	3.953	–

Note: Verify doesn't perform this calculation. Verify currently defaults to mfr's value.

UDDS/Highway/US06 Bag/Phase Number 3

cumulative

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value
ACT-DISTANCE (Actual Distance Driven (miles))	7.464	–
AMP-HRS (Integrated Amp-hours)	11.73	–
AS-VOLT (Average System Voltage)	372.04	–
CO (Carbon Monoxide)	0	–
END-SOC (System End State of Charge Amp Watt-hours)	11.73	–
FE BAG 1 (Bag 1 Fuel Economy)	0	0
FE BAG 2 (Bag 2 Fuel Economy)	0	0
HC-NM (Non-methane Hydrocarbon)	0	–
HC-TOTAL (Total Hydrocarbon)	0	–
METHANE (CH4 - Methane)	0	–
MFR FE (Manufacturer Fuel Economy)	0	0
NMOG (Non-methane organic gas (California))	0	–
NOX (Nitrogen Oxide)	0	–
START-SOC (System Start State of Charge Amp Watt-hours)	7.809	–

Should be zero for series PHEVs until the transition phase. For parallel (blended) PHEVs, please enter the emissions & FE Bag 1 data for each phase.

UDDS/Highway/US06 Bag/Phase Number 4

Cumulative

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value
ACT-DISTANCE (Actual Distance Driven (miles))	7.466	–
AMP-HRS (Integrated Amp-hours)	15.69	–
AS-VOLT (Average System Voltage)	365.29	–
CO (Carbon Monoxide)	0	–
END-SOC (System End State of Charge Amp Watt-hours)	15.69	–
FE BAG 1 (Bag 1 Fuel Economy)	0	0
FE BAG 2 (Bag 2 Fuel Economy)	0	0
HC-NM (Non-methane Hydrocarbon)	0	–
HC-TOTAL (Total Hydrocarbon)	0	–
METHANE (CH4 - Methane)	0	–
MFR FE (Manufacturer Fuel Economy)	0	0
NMOG (Non-methane organic gas (California))	0	–
NOX (Nitrogen Oxide)	0	–

START-SOC (System Start State of Charge Amp-Watt-hours)	11.73	--

UDDS/Highway/US06 Bag/Phase Number 5

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value
ACT-DISTANCE (Actual Distance Driven (miles))	7.461	--
AMP-HRS (Integrated Amp-hours)	19.71	--
AS-VOLT (Average System Voltage)	359.27	--
CO (Carbon Monoxide)	0	--
END-SOC (System End State of Charge Amp-Watt-hours)	19.71	--
FE BAG 1 (Bag 1 Fuel Economy)	0	0
FE BAG 2 (Bag 2 Fuel Economy)	0	0
HC-NM (Non-methane Hydrocarbon)	0	--
HC-TOTAL (Total Hydrocarbon)	0	--
METHANE (CH4 - Methane)	0	--
MFR FE (Manufacturer Fuel Economy)	0	0
NMOG (Non-methane organic gas (California))	0	--
NOX (Nitrogen Oxide)	0	--
START-SOC (System Start State of Charge Amp-Watt-hours)	15.69	--

Cumulative

UDDS/Highway/US06 Bag/Phase Number 6

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value
ACT-DISTANCE (Actual Distance Driven (miles))	7.455	--
AMP-HRS (Integrated Amp-hours)	23.8	--
AS-VOLT (Average System Voltage)	353.28	--
CO (Carbon Monoxide)	0	--
END-SOC (System End State of Charge Amp-Watt-hours)	23.8	--
FE BAG 1 (Bag 1 Fuel Economy)	0	0
FE BAG 2 (Bag 2 Fuel Economy)	0	0
HC-NM (Non-methane Hydrocarbon)	0	--
HC-TOTAL (Total Hydrocarbon)	0	--
METHANE (CH4 - Methane)	0	--
MFR FE (Manufacturer Fuel Economy)	0	0
NMOG (Non-methane organic gas (California))	0	--
NOX (Nitrogen Oxide)	0	--
START-SOC (System Start State of Charge Amp-Watt-hours)	19.71	--

Cumulative

UDDS/Highway/US06 Bag/Phase Number 7

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value
ACT-DISTANCE (Actual Distance Driven (miles))	7.452	--
AMP-HRS (Integrated Amp-hours)	27.92	--
AS-VOLT (Average System Voltage)	347.83	--
CO (Carbon Monoxide)	0	--
END-SOC (System End State of Charge Amp-Watt-hours)	27.92	--
FE BAG 1 (Bag 1 Fuel Economy)	0	0
FE BAG 2 (Bag 2 Fuel Economy)	0	0
HC-NM (Non-methane Hydrocarbon)	0	--
HC-TOTAL (Total Hydrocarbon)	0	--
METHANE (CH4 - Methane)	0	--
MFR FE (Manufacturer Fuel Economy)	0	0
NMOG (Non-methane organic gas (California))	0	--
NOX (Nitrogen Oxide)	0	--
START-SOC (System Start State of Charge Amp-Watt-hours)	23.8	--

Cumulative

UDDS/Highway/US06 Bag/Phase Number 8

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value

VW FOIA, EPA 06/20/2017 2017-FFP_005797

Cumulative

ACT-DISTANCE (Actual Distance Driven (miles))	7.458	--
AMP-HRS (Integrated Amp-hours)	30.29	--
AS-VOLT (Average System Voltage)	343.39	--
CO (Carbon Monoxide)	0.644	--
END-SOC (System End State of Charge Amp-Watt-hours)	30.29	--
FE BAG 1 (Bag 1 Fuel Economy)	96.4	96.4
FE BAG 2 (Bag 2 Fuel Economy)	0	0
HC-NM (Non-methane Hydrocarbon)	0.009	--
HC-TOTAL (Total Hydrocarbon)	0.012	--
METHANE (CH4 - Methane)	0.003	--
MFR FE (Manufacturer Fuel Economy)	0	0
NMOG (Non-methane organic gas (California))	0.0094	--
NOX (Nitrogen Oxide)	0.013	--
START-SOC (System Start State of Charge Amp-Watt-hours)	27.92	--

UDDS/Highway/US06 Bag/Phase Number 9

Cumulative

Test Result Name	Unrounded Test	Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value
ACT-DISTANCE (Actual Distance Driven (miles))	7.454	--
AMP-HRS (Integrated Amp-hours)	30.36	--
AS-VOLT (Average System Voltage)	341.28	--
CO (Carbon Monoxide)	1.001	--
END-SOC (System End State of Charge Amp-Watt-hours)	30.36	--
FE BAG 1 (Bag 1 Fuel Economy)	51	51
FE BAG 2 (Bag 2 Fuel Economy)	0	0
HC-NM (Non-methane Hydrocarbon)	0.004	--
HC-TOTAL (Total Hydrocarbon)	0.007	--
METHANE (CH4 - Methane)	0.003	--
MFR FE (Manufacturer Fuel Economy)	0	0
NMOG (Non-methane organic gas (California))	0.0042	--
NOX (Nitrogen Oxide)	0.016	--
START-SOC (System Start State of Charge Amp-Watt-hours)	30.2	--

Verify-Calculated Fields

System Miles 5038

Fuel Economy

Unrounded Unadjusted Fuel Economy	--	**Rounded Unadjusted Fuel Economy**	--
Unrounded Adjusted Fuel Economy	--	**Rounded Adjusted Fuel Economy**	--

CREE / OPT-CREE

Unrounded Unadjusted CREE	--	**Rounded Unadjusted CREE**	--
Unrounded Adjusted CREE	--	**Rounded Adjusted CREE**	--
Unrounded Unadjusted OPT-CREE	--	**Rounded Unadjusted OPT-CREE**	--
Unrounded Adjusted OPT-CREE	--	**Rounded Adjusted OPT-CREE**	--

Manufacturer Test Comments

150K CD EMIS TEST

View Related Confirmatory Test Decision Information

VW FOIA, EPA 06/20/2017 2017-FFP_005798

To: leonard.kata@vw.com[leonard.kata@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; oliver.schmidt@vw.com[oliver.schmidt@vw.com]
From: Good, David
Sent: Tue 1/22/2013 2:37:58 PM
Subject: Electric Vehicle templates attached
2013 generic EV Label calculations-1-18-13.xlsm
EV Verify Rel 9and10-Charge Depleting example data.8-9-2012.pdf
PHEV - Verify Rel9-Charge Depleting example data-2-10-2011.pdf

Len,

In the VW/EPA meeting on 10/30/2012, you asked if we could send you an EV and a PHEV calculator template.

Attached is an EV calculator---sorry it took so long for me to respond, but I needed 2-3 hours to clean it up a.bit (and I didn't find the time until last Friday). The template calculates derived 5-cycle label values and "Capped" label values (which are capped at a maximum 30% downward in-use adjustment factor)---per EPA policy for EVs. The template seemed to work OK for one EV manufacturer----let me know if you see any errors or have any questions.

I have a PHEV calculator that worked well for Fisker (non blended PHEV), but still need to clean it up a little. I'll try to send it to you this morning or so.

Also attached are example templates for entering charge depleting data into EPA's Verify data base.

Please call if you have questions.

Dave

Derived 5-cycle MPG Calculations For Electric Vehicles

Please Enter:

Model Year: 2014

Manufacturer Name: xxxxxxx

Model Name yyyyyyyy

Test Date: xx/yy/2013

Values in Yellow fill are used on FE Labels (window stickers)

I. Calculate Electric vehicle FE Label city, Hwy, Combined FE values using the 2008 (derived 5-cycle) method and the 30% cap method:

Enter unadjusted unrounded kW-hr/100mi Values (in red text blocks) as determined from SAE J1634:

		City (round mpg to 0.1mpg)	Highway (round mpg to 0.1mpg)	Combined Calculated unadjusted combined	Units
Elect veh FE	unrounded kW-hr/100 mi	25.3900	29.3125	27.1551	kW-hr/100 mi
Elect veh FE	converted to mpg	**132.7**	**115.0**	124.1044	mpg

2008 FE Label method (Derived 5-cycle)

	Derived 5-cycle City	Derived 5-cycle Hwy	Adjusted Combined	Units
Calculate derived 5-cycle mpg:	**82.3**	**76.4**	**79.5**	mpg
convert back to kW-hr/100 mi:	**41.0**	**44.1**	**42.4**	**kW-hr/100 mi Derived 5-cycle**
Percent adjustment mpg:	**38.0%**	**33.6%**	**35.9%**	percent
MPG w/ 30% Cap	92.9	80.5	86.8731	MPGe with 30 % Cap
convert back to kW-hr/100 mi:	36.2849	41.8696	38.7980	kW-hr/100 mi w/30 % Cap
			38.8	
2014 Label Values:				
Rounded MPG w/30% cap:	93	80	87	
Rounded kW=hr/100 mi:	36	42	39	

II. Calculate Electric vehicle driving ranges using the unadjusted SAE J1634 method and the 2008 (derived 5-cycle) method:

Enter unadjusted City & Hwy Range Values in miles (in red text blocks) as determined from SAE J1634:

	City Range	Hwy Range	Combined Range	Rounded Range	Units	Method:
Calculate unadjusted driving range:	111.293	89.42	101.4502	101	miles	Unadjusted (SAE J1634)
Calculate adjusted driving range (2008 method, No Cap):	69.0	59.4	64.9879	65	miles	2008 (derived 5-cycle, mpg-based, No Cap)
Calculate adjusted driving range (2008 method, 30% Cap):	77.9	62.6	71.0151	71	miles	2008 (derived 5-cycle, mpg-based, 30% Cap)

III. Calculate Electric vehicle annual fuel cost and 5-year savings, per 40 CFR 600.311-12(e)

2008 MPG Factors:

ref. 40 CFR 600.210-08

City Intercept:	0.00326
City Slope:	1.1805
Hwy Intercept:	0.00138
Hwy Slope:	1.3466

Petroleum Equivalency Factor for electricity; ref 10 CFR 474.3

33,705 watt-hr/gallon w/o 6.667 CAFE incentive no fuel fired accessories

Enter Average 2014 5-year Fuel Cost: $11,500

Enter U.S. electricity costs: $0.12 per kw-hr (from CD-12-18 for 2014)

Calculate unrounded adjusted combined miles/kw-hr: 2.57745 mi/kw-hr

Annual Miles	Cost	Units	Unrounded Annual Fuel Cost*	Method	2014 Label Rounded Annual Fuel Cost	2014 Label 5-year Amount You Save:
15,000	$0.12	per kw-hr	$763.20	2008 (derived 5-cycle, mpg-based, No Cap)	$750.00	$7,750
15,000	$0.12	per kw-hr	$698.36	2008 (derived 5-cycle, mpg-based, 30% Cap)	$700.00	$8,000

*Note: Annual fuel costs should be ASTM rounded to the nearest $50.

To: richard.thomas@vw.com[]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Tue 1/22/2013 5:21:39 PM
Subject: re: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2014 FEGuide-all rel dates-no-sales-1-17-2013.xlsx

Richard,

Our macro picked up a few errors in your 2014 labels. Attached are the data in Verify as of January 17, 2013 for 2014 model year FE labels. Labels with pea green fill in the first few columns contained errors and were not sent to DOE for posting on the web (provided the label release date was Jan 22, 2013 or earlier).

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Please make any needed corrections when you get a chance.

Thanks

EPA comn	VERIFY cc	Model Yr (	Mfr Name	Division (	tCarline	Verify Mfr	Index (Mo	Eng Displ	# Cyl
Diesel; Err	Y	2014	Audi	Audi	A8L	ADX	1	3.0	6
		2014	Audi	Audi	R8	ADX	5	4.2	8
Error in co	Y	2014	Audi	Audi	R8	ADX	9	4.2	8
		2014	Audi	Audi	R8	ADX	3	5.2	10
Error in co	Y	2014	Audi	Audi	R8	ADX	7	5.2	10
		2014	Audi	Audi	R8 Spyder	ADX	4	4.2	8
Error in co	Y	2014	Audi	Audi	R8 Spyder	ADX	8	4.2	8
		2014	Audi	Audi	R8 Spyder	ADX	2	5.2	10
Error in co	Y	2014	Audi	Audi	R8 Spyder	ADX	6	5.2	10

Trans as I	City FE (G	Hwy FE (C	Comb FE	Low'd City	Low'd HW	Low'd Cor	City Unad	Hwy Unad	Comb Una
Auto(S8)	24	36	28				29.9399	51.4000	38.8664
Auto(AM-S	14	23	17				16.4710	29.7396	20.6087
Manual(M	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S	13	22	16				15.4000	28.8067	19.4796
Manual(M	12	19	14				13.7000	23.3840	16.8379
Auto(AM-S	14	23	17				16.4710	29.7396	20.6087
Manual(M	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S	13	22	16				15.4000	28.8067	19.4796
Manual(M	12	19	14				13.7000	23.3840	16.8379

Verify as needed.

City Unrd	Hwy Unrd	Comb Unr	Guzzler?	Air Aspir I	Air Aspira	Trans	Trans Des	Trans, Otl	# Gears
23.8727	36.3252	28.2271		TC	Turbochar	SA	Semi-Auto		8
13.5719	22.6008	16.5465	G	NA	Naturally A	AMS	Automatec		7
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6
12.9942	22.2057	15.9766	G	NA	Naturally A	AMS	Automatec		7
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6
13.5719	22.6008	16.5465	G	NA	Naturally A	AMS	Automatec		7
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6
12.9942	22.2057	15.9766	G	NA	Naturally A	AMS	Automatec		7
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6

Lockup Tc	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
Y	N	A	All Wheel	IEADXJ03.04UG		5	DU		Diesel, ultr
tomated M	Manual with	A	paddles)	All Wheel	IEADXV04.2	10		GP	Gasoline (F
N	N	A	All Wheel	IEADXV04.2	10			GP	Gasoline (F
tomated M	Manual with	A	paddles)	All Wheel	IEADXV05.2	10		GP	Gasoline (F
N	N	A	All Wheel	IEADXV05.2	10			GP	Gasoline (F
tomated M	Manual with	A	paddles)	All Wheel	IEADXV04.2	10		GP	Gasoline (F
N	N	A	All Wheel	IEADXV04.2	10			GP	Gasoline (F
tomated M	Manual with	A	paddles)	All Wheel	IEADXV05.2	10		GP	Gasoline (F
N	N	A	All Wheel	IEADXV05.2	10			GP	Gasoline (F

Fuel Type	Fuel Unit	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
Ultra Low Sulfur Diesel (15 ppm maximum)	MPG	miles per gal	Not exempt			107	15		
Unleaded Recommended)	MPG	miles per gal	Not exempt						
Unleaded Recommended)	MPG	miles per gal	Not exempt						
Unleaded Recommended)	MPG	miles per gal	Not exempt						
Unleaded Recommended)	MPG	miles per gal	Not exempt						
Unleaded Recommended)	MPG	miles per gal	Not exempt						
Unleaded Recommended)	MPG	miles per gal	Not exempt						
Unleaded Recommended)	MPG	miles per gal	Not exempt						
Unleaded Recommended)	MPG	miles per gal	Not exempt						

Annual Fu	EPA Calcı	Comment	City2 FE (I	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
2050	2050								
3300	3300								
4000	4000								
3500	3500								
4000	4000	CORRECTED THE GAS GUZZLER TO ADJ COMBINED VALUE							
3300	3300								
4000	4000								
3500	3500								
4000	4000	CORRECTED GAS GUZZLER COMBINED VALUE							

Hwy2 Unit	Comb2 Unit	Hwy2 Unit	Comb2 Unit	Range2 -	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit
Alternative Fuel								

Fuel2 AltnFuel	Fuel2 AltnCity CO2	Hwy CO2	Comb CO2	Fuel2 EPA	Descriptor	Intake Val	Exhaust V	Carline Cl	Carline Cl
						2	26	Large Cars	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	

Car/Truck	Calc Appr	Sales	Release D	EPA FE Label Dataset ID	Unique La	Label Rec	Relabel	Relabel D
car	Vehicle Specific 5-cycle	2/4/2013		13001	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12975	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13008	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12971	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13010	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12974	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13007	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12970	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13009	N	N		

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N	N	N	N					
N	N	N	Y	CONTINUCN					
N	N	N	Y	CONTINUCN					
N	N	ENGINE CCN	Y	INLET ANDN					
N	N	ENGINE CCN	Y	INLET ANDN					
N	N	N	Y	CONTINUCN					
N	N	N	Y	CONTINUCN					
N	N	ENGINE CCN	Y	INLET ANDN					
N	N	ENGINE CCN	Y	INLET ANDN					

evice Desc	Energy St	# Batterie	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C#	Drive Mc	Motor Ger

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				CRDI	Common F		N		5W30 VW
				GDI	Spark Ignit		N		5W/30, VV
				GDI	Spark Ignit		N		5W/30, VV
				GDI	Spark Ignit		N		10W60 VW
				GDI	Spark Ignit		N		10W60 VW
				GDI	Spark Ignit		N		5W/30, VV
				GDI	Spark Ignit		N		5W/30, VV
				GDI	Spark Ignit		N		10W60 VW
				GDI	Spark Ignit		N		10W60 VW

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
Y	Yes	Auto(S8)	Auto(S8)						
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
M	50500	No	Auto(AM-S	Auto(AM-S					
M	50500	No	Manual(M	Manual(M					
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
M	50500	No	Auto(AM-S	Auto(AM-S					
M	50500	No	Manual(M	Manual(M					

[redacted]	EPA Calculated Gas G	[redacted]	[redacted] (GHG Ratin	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
36.9	[redacted]	7	6	EADXJ03.0	5		
20.8	[redacted]	3	3	EADXV04.2	5		
17.2	[redacted]	2	2	EADXV04.2	5		
19.6	[redacted]	3	3	EADXV05.2	5		
17.0	[redacted]	2	2	EADXV05.2	5		
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17.2	[redacted]	2	2	EADXV04.2	5		
19.6	[redacted]	3	3	EADXV05.2	5		
17.0	[redacted]	2	2	EADXV05.2	5		

#3 Smog R #3 Mfr Sm #3 EPA Sm SmartWay #4 Smog R #4 Mfr Sm

| [illegible] | [illegible] | [illegible] |

[illegible]	[illegible]	[illegible]	[illegible]	240V Char	120V Char	PHEV Tota
339.0	198.0	275.6	425.6	280.1	360.1	
540.1	299.6	431.9	655.8	394.0	538.0	
650.6	360.5	520.0	770.1	435.7	619.6	
577.0	309.4	456.6	685.6	400.2	557.2	
564.6	331.4	459.6	754.5	455.5	620.0	
540.1	299.6	431.9	655.8	394.0	538.0	
650.6	360.5	520.0	770.1	435.7	619.6	
577.0	309.4	456.6	685.6	400.2	557.2	
564.6	331.4	459.6	754.5	455.5	620.0	

[illegible]	[illegible]	Comb Vol Higher	Final Label	EPA_FUEL	EPA_GHG	EPA_AMT
	N	3.6	3.6			
	N	5.9	5.9			
	N	7.1	7.1			
	N	6.2	6.2			
	N	7.1	7.1			
	N	5.9	5.9			
	N	7.1	7.1			
	N	6.2	6.2			
	N	7.1	7.1			

| [illegible] | [illegible] | [illegible] |

mined)

To: richard.thomas@vw.com[]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Tue 1/22/2013 5:21:39 PM
Subject: re: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2014 FEGuide-all rel dates-no-sales-1-17-2013.xlsx

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12.9942	22.2057	15.9766	G	NA	Naturally A	AMS	Automatec		7
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6

Lockup Tc	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
Y	N	A	All Wheel	IEADXJ03.04UG		5	DU		Diesel, ultr
tomated M	Manual with	A	paddles)	All Wheel	IEADXV04.2	10		GP	Gasoline (F
N	N	A		All Wheel	IEADXV04.2	10		GP	Gasoline (F
tomated M	Manual with	A	paddles)	All Wheel	IEADXV05.2	10		GP	Gasoline (F
N	N	A		All Wheel	IEADXV05.2	10		GP	Gasoline (F
tomated M	Manual with	A	paddles)	All Wheel	IEADXV04.2	10		GP	Gasoline (F
N	N	A		All Wheel	IEADXV04.2	10		GP	Gasoline (F
tomated M	Manual with	A	paddles)	All Wheel	IEADXV05.2	10		GP	Gasoline (F
N	N	A		All Wheel	IEADXV05.2	10		GP	Gasoline (F

Fuel Type	Fuel Unit	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
Ultra Low Sulfur Diesel (15 ppm maximum)	MPG (miles per gal	Not exempt				107	15		
Unleaded Recommended)	MPG (miles per gal	Not exempt							
Unleaded Recommended)	MPG (miles per gal	Not exempt							
Unleaded Recommended)	MPG (miles per gal	Not exempt							
Unleaded Recommended)	MPG (miles per gal	Not exempt							
Unleaded Recommended)	MPG (miles per gal	Not exempt							
Unleaded Recommended)	MPG (miles per gal	Not exempt							
Unleaded Recommended)	MPG (miles per gal	Not exempt							
Unleaded Recommended)	MPG (miles per gal	Not exempt							

Annual Fu	EPA Calcı	Comment	City2 FE (I	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
2050	2050								
3300	3300								
4000	4000								
3500	3500								
4000	4000	CORRECTED THE GAS GUZZLER TO ADJ COMBINED VALUE							
3300	3300								
4000	4000								
3500	3500								
4000	4000	CORRECTED GAS GUZZLER COMBINED VALUE							

Hwy2 Unit	Comb2 Unit	Hwy2 Unit	Comb2 Unit	Range2 -	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit

Alternative Fuel Fuel2 AltmCity CO2	Hwy CO2	Comb CO2	Fuel2 EPA	Descriptor	Intake Val	Exhaust V	Carline Cl	Carline Cl
					2	26		Large Cars
				SIDI;	2	21		Two Seate
				SIDI;	2	21		Two Seate
				SIDI;	2	21		Two Seate
				SIDI;	2	21		Two Seate
				SIDI;	2	21		Two Seate
				SIDI;	2	21		Two Seate
				SIDI;	2	21		Two Seate
				SIDI;	2	21		Two Seate

MC Car/Truck	Calc Appr	Sales	Release D	EPA FE Label	Dataset ID	Unique La	Label Rec	Relabel	Relabel D
car	Vehicle Specific 5-cycle	2/18/2013		13001	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/18/2013		12975	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/18/2013		13008	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/18/2013		12971	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/18/2013		13010	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/18/2013		12974	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/18/2013		13007	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/18/2013		12970	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/18/2013		13009	[redacted]	N	N		

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N	N	N	N					
N	N	N	Y	CONTINUCN					
N	N	N	Y	CONTINUCN					
N	N	ENGINE CCN	Y	INLET ANDN					
N	N	ENGINE CCN	Y	INLET ANDN					
N	N	N	Y	CONTINUCN					
N	N	N	Y	CONTINUCN					
N	N	ENGINE CCN	Y	INLET ANDN					
N	N	ENGINE CCN	Y	INLET ANDN					

evice Desc	Energy St	# Batterie	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C#	Drive M(	Motor Ger

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				CRDI	Common F		N		5W30 VW
				GDI	Spark Ignit		N		5W/30, VV
				GDI	Spark Ignit		N		5W/30, VV
				GDI	Spark Ignit		N		10W60 VW
				GDI	Spark Ignit		N		10W60 VW
				GDI	Spark Ignit		N		5W/30, VV
				GDI	Spark Ignit		N		5W/30, VV
				GDI	Spark Ignit		N		10W60 VW
				GDI	Spark Ignit		N		10W60 VW

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
Y	Yes	Auto(S8)	Auto(S8)						
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
M	50500	No	Auto(AM-S	Auto(AM-S					
M	50500	No	Manual(M	Manual(M					
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
M	50500	No	Auto(AM-S	Auto(AM-S					
M	50500	No	Manual(M	Manual(M					

[redacted]	EPA Calculated Gas G	[redacted]	[redacted] (GHG Ratin	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
36.9	[redacted]	7	6	EADXJ03.0	5		
20.8	[redacted]	3	3	EADXV04.2	5		
17.2	[redacted]	2	2	EADXV04.2	5		
19.6	[redacted]	3	3	EADXV05.2	5		
17.0	[redacted]	2	2	EADXV05.2	5		
20.8	[redacted]	3	3	EADXV04.2	5		
17.2	[redacted]	2	2	EADXV04.2	5		
19.6	[redacted]	3	3	EADXV05.2	5		
17.0	[redacted]	2	2	EADXV05.2	5		

| | | |

[illegible]	You Save$	You Spend$	City CO2	Hwy CO2	Comb CO2	CO2- Volu	CO2- Volu	CO2-Vol In
1350			426	280	360			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	240V Char	120V Char	PHEV Tota
339.0	198.0	275.6	425.6	280.1	360.1		
540.1	299.6	431.9	655.8	394.0	538.0		
650.6	360.5	520.0	770.1	435.7	619.6		
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577.0	309.4	456.6	685.6	400.2	557.2		
564.6	331.4	459.6	754.5	455.5	620.0		

| [illegible] | [illegible] | [illegible] |

| [redacted] | [redacted] | [redacted] |

mined)

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Tue 1/22/2013 5:21:39 PM
Subject: re: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2014 FEGuide-all rel dates-no-sales-1-17-2013.xlsx

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To: David Good/AA/USEPA/US@EPA[]
Cc: Jim Snyder/AA/USEPA/US@EPA[]
From: "Thomas, Richard (EEO)"
Sent: Tue 1/22/2013 7:12:52 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov

Hi Dave;

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From: Good.David@epamail.epa.gov [mailto:Good.David@epamail.epa.gov]
Sent: Tuesday, January 22, 2013 12:22 PM
To: Thomas, Richard (EEO)
Cc: Snyder.Jim@epamail.epa.gov
Subject: re: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov

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VW FOIA, EPA 06/20/2017 2017-FFP_005854

Thanks

(See attached file: VW_Group_2014 FEGuide-all rel dates-no-sales-1-17-2013.xlsx)

VW FOIA, EPA 06/20/2017 2017-FFP_005855

To: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: CN=David Good/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 1/22/2013 8:14:27 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov

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snyder.jim@epa.gov

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Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 01/22/2013 02:12 PM
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(See attached file: VW_Group_2014 FEGuide-all rel dates-no-sales-1-17-2013.xlsx)

VW FOIA, EPA 06/20/2017 2017-FFP_005857

To: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: CN=David Good/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 1/22/2013 8:14:27 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov

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(See attached file: VW_Group_2014 FEGuide-all rel dates-no-sales-1-17-2013.xlsx)

VW FOIA, EPA 06/20/2017 2017-FFP_005859

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
Cc: Good, David[good.david@epa.gov]
From: Snyder, Jim
Sent: Tue 1/22/2013 8:14:27 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov

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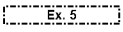
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Cc: David Good/AA/USEPA/US@EPA;"Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; Schmidt, Oliver (EEO)" [Oliver.Schmidt@vw.com]
From: "Thomas, Richard (EEO)"
Sent: Wed 1/23/2013 1:44:13 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of January 17, 2013 which held up posting on www.fueleconomy.gov
VGA sample VECI labels.pdf
Richard.Thomas@VW.com
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Hi Jim;

Yes, this is the same subject that Bob Peavyhouse and I talked about when I was preparing the 2011 final CAFE report in Verify, and before Bob Hart got involved. It was a nightmare with regard to granting permissions for one manufacture to use data from another. We currently have five different EPA Verify accounts (one for each brand sold in the U.S.). The proposal is to use one code in Verify for VOLKSWAGEN Group of America, Inc. (VGA) for all brands, Volkswagen, Bentley, Audi, Lamborghini and Bugatti.

This VGA code would be used in all brand test groups for example 2015: "FVGAVxxxxxxx". I have attached a sample of each of the brand emission control information labels. This method was agreed by all the brands and was approved by the top management of our parent company in Germany. Porsche will be integrated into and under this new VGA code beginning with model year 2017 at the earliest.

There may have to be some special programing in order for us to use older data for the new code, but in the end it should be easier for everyone to process the huge amount of future data. For that reason I am sure Bob Peavyhouse would need to be included.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

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VW FOIA, EPA 06/20/2017 2017-FFP_005864

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Good, David[good.david@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]; Schmidt, Oliver (EEO)[Oliver.Schmidt@vw.com]
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To: Sebastian.Berenz@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 1/28/2013 8:48:31 PM
Subject: Test data for in-use vehicle S108-0047
S108RXX-0047.pdf

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

VW FOIA, EPA 06/20/2017 2017-FFP_005868

C15D

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0093-002 Vehicle ID: S108RXX-0047

Test Information

Test Date:	1/24/2013	MFR Name	VOLKSWAGEN
Key Start / Hot Soak:	10:46:14 / 09:46	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	02 CVS 75-Later (w/o Can Load) (ftp3bag)	Shift Schedule:	A09980005
Calculation Method:	Diesel	Beginning Odometer:	034608.0 MI
Pretest Remarks:		Drive Schedule:	ftp3bag
		Soak Period:	20.4 hours

Bag Data	THC / IntTHC	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	14.790 / 16.917	46.095	3.550	0.753	8.288	
Ambient	2.132	0.261	0.017	0.043	1.952	
Net Concentration	12.779 / 14.906	45.849	3.535	0.712	6.447	7.905

Remarks:

Phase 2						
Sample	3.813 / 3.650	0.323	0.033	0.464	3.181	
Ambient	2.122	0.056	0.012	0.043	1.962	
Net Concentration	1.764 / 1.601	0.268	0.021	0.423	1.287	0.204

Remarks:

Phase 3						
Sample	12.245 / 12.282	0.613	0.169	0.696	10.884	
Ambient	2.124	0.049	0.008	0.043	1.957	
Net Concentration	10.232 / 10.269	0.567	0.162	0.656	9.029	0.463

Remarks:

Phase 4						
Sample						
Ambient						
Net Concentration						

Remarks: This test has particulate results.

Results	THC / IntTHC	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.197	1.223	0.140	298.5	0.099	0.104	33.985
Phase 2	- / 0.034	0.011	0.001	281.7	0.031	0.004	36.310
Phase 3	- / 0.135	0.015	0.006	272.7	0.137	0.006	37.460
Weighted	0.09524	0.26329	0.03142	282.698	0.07427	0.02551	

Fuel Economy	Diesel MPG
Phase 1	33.80
Phase 2	36.11
Phase 3	37.25
Weighted	35.87

Dyno Settings

Dyno #: D329 - FWD
Inertia: 3750
EPA Set Co A: 17.50
EPA Set Co B: 0.0360
EPA Set Co C: 0.01930

Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0093-002 Vehicle ID: S108RXX-0047

Results

	THC / IntTHC (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	- / 0.702	4.359	0.499	1064.1	0.351	0.372	1.086
Phase 2	- / 0.129	0.044	0.005	1080.7	0.120	0.016	
Phase 3	- / 0.483	0.054	0.023	978.1	0.491	0.022	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.59	29.60	29.60	
Avg Cell Temp (degF)	74.25	74.25	74.31	
Dew Point (degF)	48.83	49.15	49.41	
Specific Humidity (grains/lbm)	51.81	52.44	52.94	
NOx Corr Factor	0.9017	0.9041	0.9061	
CO2 Dilution Factor	17.664	28.852	19.214	
CFV Vmix (scf @68F)	2877.21	4922.48	2872.09	
Total Vmix (scf@68F)	2883.92	4933.26	2878.56	
CVS Flow Rate Avg (scfm)	340.50	339.72	339.76	

Fan Placement: One Fan - Up - Front

Phase Time (secs)	506.99	869.40	507.21
Distance (miles)	3.564	3.837	3.587
Bag Analysis Time (secs)	1003.0	248.6	135.9

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2013-0093-002 Vehicle ID: S108RXX-0047

Test Information

Test Date: 1/24/2013
Key Start: 10:46:14 / 09:46
Fuel Container ID: F00022
Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur
Test Procedure: 02 CVS 75-Later (w/o Can Load) (ftp3bag)
Calculation Method: Diesel
Pretest Remarks:

MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980005
Beginning Odometer: 034608.0 MI
Drive Schedule: ftp3bag
Soak Period: 20.4 hours

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1	A	447291	145.2619	0.0000	0.00000	0.000	0.000	
	B	447292	145.3669	145.3747	0.00787	2.962	0.831	
	C	447293	143.6182	143.6274	0.00914	3.451	0.968	
Remarks:						.	.	.
Phase 2	A	447294	142.8384	0.0000	0.00000	0.000	0.000	
	B	447295	142.6427	142.6477	0.00492	1.915	0.499	
	C	447296	143.7070	143.7099	0.00284	1.111	0.290	
Remarks:						.	.	.
Phase 3	A	447297	144.1736	0.0000	0.00000	0.000	0.000	
	B	447298	144.8189	144.8284	0.00956	3.683	1.027	
	C	447299	144.2734	144.2761	0.00274	1.063	0.296	
Remarks:						.	.	.
Phase 4								
Remarks:	This test has particulate results.					.	.	.

Average Results	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.00567	3.207	0.900
Phase 2	0.00259	1.513	0.394
Phase 3	0.00410	2.373	0.662

All filter weights are corrected for buoyancy.

Weighted All Filters: 0.57259

Reference Filter Stability Check	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL
2% of Avg Net or 0.01 mg					
0.01	1	145.15995	145.16111	0.00116	PASS
	2	144.62114	144.62370	0.00255	PASS

Dyno #: D329 - FWD
Inertia: 3750
EPA Set Co A: 17.50
EPA Set Co B: 0.0360
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Emissions Bencl Mexa 7200dle

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Final Laboratory Test Results

Test Number: 2013-0093-002 Vehicle ID: S108RXX-0047

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	1/23/13 14:30	1.0011169	022298	71.7	49.1	29.16	NORM @ 01/18/13 18:10:28
Post-test	1/24/13 15:36	1.0011325	022298	71.6	49.1	29.55	NORM @ 01/24/13 10:47:52

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.59	29.60	29.60	
Avg Cell Temp (degF)	74.25	74.25	74.31	
Dew Point (degF)	48.83	49.15	49.41	
Specific Humidity (grains/lbm)	51.81	52.44	52.94	
NOx Corr Factor	0.9017	0.9041	0.9061	
Dilution Factor	17.66	28.85	19.21	
CFV Vmix (scf @68F)	2877.21	4922.48	2872.09	
Sample Volume A (scf @68F)	-8.586	-14.486	-8.438	
Sample Volume B (scf @68F)	7.658	12.676	7.472	
Sample Volume C (scf @68F)	7.639	12.588	7.432	
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	2.237	3.593	2.155	
Total Vmix (scf @68F)	2883.92	4933.26	2878.56	
Phase Time (sec)	506.99	869.40	507.21	
Distance (miles)	3.564	3.837	3.587	
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.0	42.7	42.3	
PSU Dil Air B (degC)	43.1	41.4	42.3	
PSU Dil Air C (degC)	43.4	41.6	39.8	
PSU Filter A (degC)	47.3	49.4	48.6	
PSU Filter B (degC)	51.2	53.1	51.2	
PSU Filter C (degC)	50.2	51.7	51.3	
PSU Dil Flow A (lpm)	30.0	30.0	29.9	
PSU Dil Flow B (lpm)	30.0	30.0	29.9	
PSU Dil Flow C (lpm)	30.0	30.0	29.9	
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

C1SD

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0093-003 Vehicle ID: S108RXX-0047

Test Information

Test Date:	1/24/2013	MFR Name	VOLKSWAGEN
Key Start:	12:34:52	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	03.01 HWFET Only (hwfet)	Shift Schedule:	A09980011
Calculation Method:	Diesel	Beginning Odometer:	034619.0 MI
Pretest Remarks:		Drive Schedule:	hwfetwarmup_hwfet

Bag Data	THC / IntTHC	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	7.119 / 7.128	0.433	0.618	0.917	6.540	
Ambient	1.996	0.006	0.008	0.043	1.941	
Net Concentration	5.259 / 5.269	0.427	0.610	0.877	4.733	0.130

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks: This test has particulate results.

Results	THC / IntTHC	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.036	0.006	0.013	190.9	0.038	0.001	53.562

Fuel Economy	Diesel MPG
Phase 1	53.27

Dyno Settings

Dyno #: D329 - FWD
Inertia: 3750
EPA Set Co A: 17.50
EPA Set Co B: 0.0360
EPA Set Co C: 0.01930

Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0093-003 Vehicle ID: S108RXX-0047

Results	THC / IntTHC (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	- / 0.370	0.061	0.128	1955.5	0.385	0.009	1.086

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.58			
Avg Cell Temp (degF)	74.25			
Dew Point (degF)	49.02			
Specific Humidity (grains/lbm)	52.22			
NOx Corr Factor	0.9033			
CO2 Dilution Factor	14.605			
CFV Vmix (scf @68F)	4282.94			
Total Vmix (scf@68F)	4305.34			
CVS Flow Rate Avg (scfm)	335.92			

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.00
Distance (miles)	10.243
Bag Analysis Time (secs)	

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2013-0093-003 Vehicle ID: S108RXX-0047

Test Information

Test Date:	1/24/2013	MFR Name	VOLKSWAGEN
Key Start:	12:34:52	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	03.01 HWFET Only (hwfet)	Shift Schedule:	A09980011
Calculation Method:	Diesel	Beginning Odometer:	034619.0 MI
Pretest Remarks:		Drive Schedule:	hwfetwarmup_hwfet

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	447411	142.8209	142.8231	0.00219	0.842	0.082	
	C	447412	143.1749	143.1803	0.00540	2.076	0.203	
Remarks:						Exclude A		
Phase 2								
Remarks:								
Phase 3								
Remarks:								
Phase 4								
Remarks:	This test has particulate results.							

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.00379	1.459	0.142

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL
0.01	1	145.15977	145.16038	0.00061	PASS
	2	144.62237	144.62307	0.00071	PASS

Dyno #: D329 - FWD
Inertia: 3750
EPA Set Co A: 17.50
EPA Set Co B: 0.0360
EPA Set Co C: 0.01930

Emissions Bencl Mexa 7200dle

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2013-0093-003 Vehicle ID: S108RXX-0047

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	1/24/13 7:29	1.0011267	022298	72.2	49.9	29.44	NORM @ 01/23/13 15:33:28
Post-test	1/24/13 15:53	1.0011316	022298	71.9	49.8	29.55	NORM @ 01/24/13 10:47:52

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.58			
Avg Cell Temp (degF)	74.25			
Dew Point (degF)	49.02			
Specific Humidity (grains/lbm)	52.22			
NOx Corr Factor	0.9033			
Dilution Factor	14.60			
CFV Vmix (scf @68F)	4282.94			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	11.207			
Sample Volume C (scf @68F)	11.192			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	7.466			
Total Vmix (scf @68F)	4305.34			
Phase Time (sec)	765.00			
Distance (miles)	10.243			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.0			
PSU Dil Air B (degC)	41.0			
PSU Dil Air C (degC)	41.0			
PSU Filter A (degC)	47.7			
PSU Filter B (degC)	48.9			
PSU Filter C (degC)	50.5			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	29.9			
PSU Dil Flow C (lpm)	29.9			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

C15D

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0093-004 Vehicle ID: S108RXX-0047

Test Information

Test Date:	1/24/2013	MFR Name	VOLKSWAGEN
Key Start:	13:55:24	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	90 US06 (us06warmup_us06)	Shift Schedule:	A09980041
Calculation Method:	Diesel	Beginning Odometer:	034640.0 MI
Pretest Remarks:		Drive Schedule:	us06_us06

Bag Data	THC / IntTHC	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	19.995 / 20.039	0.582	12.354	1.009	17.993	
Ambient	1.999	0.000	0.035	0.043	1.945	
Net Concentration	18.147 / 18.191	0.582	12.321	0.969	16.194	0.604

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks: This test has particulate results.

Results	THC / IntTHC	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.182	0.012	0.366	308.1	0.188	0.006	33.151

Fuel Economy

	Diesel_MPG
Phase 1	32.97

Dyno Settings

Dyno #: D329 - FWD
Inertia: 3750
EPA Set Co A: 17.50
EPA Set Co B: 0.0360
EPA Set Co C: 0.01930

Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0093-004 Vehicle ID: S108RXX-0047

Results	THC / IntTHC	CO	NOx	CO2	CH4	NMHC	Meth Response
	(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.086
Phase 1	- / 1.455	0.094	2.925	2460.1	1.498	0.048	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.57			
Avg Cell Temp (degF)	74.06			
Dew Point (degF)	47.94			
Specific Humidity (grains/lbm)	50.13			
NOx Corr Factor	0.8953			
CO2 Dilution Factor	13.255			
CFV Vmix (scf @68F)	4880.46			
Total Vmix (scf@68F)	4897.95			
CVS Flow Rate Avg (scfm)	485.70			

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	602.90
Distance (miles)	7.986
Bag Analysis Time (secs)	135.9

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2013-0093-004 Vehicle ID: S108RXX-0047

Test Information

Test Date:	1/24/2013	MFR Name	VOLKSWAGEN
Key Start:	13:55:24	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	90 US06 (us06warmup_us06)	Shift Schedule:	A09980041
Calculation Method:	Diesel	Beginning Odometer:	034640.0 MI
Pretest Remarks:		Drive Schedule:	us06_us06

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	447408	143.3112	143.3152	0.00397	2.223	0.278	
	C	447409	146.7687	146.7749	0.00620	3.473	0.435	
Remarks:						Exclude A		
Phase 2								
Remarks:								
Phase 3								
Remarks:								
Phase 4								
Remarks:	This test has particulate results.							

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.00509	2.848	0.357

All filter weights are corrected for buoyancy.

Reference Filter Stability Check	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL
2% of Avg Net or 0.01 mg					
0.01	1	145.15977	145.16036	0.00058	PASS
	2	144.62237	144.62305	0.00068	PASS

Dyno #: D329 - FWD
Inertia: 3750
EPA Set Co A: 17.50
EPA Set Co B: 0.0360
EPA Set Co C: 0.01930

Emissions Bencl Mexa 7200dle

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2013-0093-004 Vehicle ID: S108RXX-0047

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	1/24/13 7:29	1.0011267	022298	72.2	49.9	29.44	NORM @ 01/23/13 15:33:28
Post-test	1/24/13 16:05	1.0011322	022298	71.8	49.1	29.56	NORM @ 01/24/13 10:47:52

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.57			
Avg Cell Temp (degF)	74.06			
Dew Point (degF)	47.94			
Specific Humidity (grains/lbm)	50.13			
NOx Corr Factor	0.8953			
Dilution Factor	13.25			
CFV Vmix (scf @68F)	4880.46			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	8.758			
Sample Volume C (scf @68F)	8.737			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	5.832			
Total Vmix (scf @68F)	4897.95			
Phase Time (sec)	602.90			
Distance (miles)	7.986			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.0			
PSU Dil Air B (degC)	40.8			
PSU Dil Air C (degC)	41.7			
PSU Filter A (degC)	47.6			
PSU Filter B (degC)	52.3			
PSU Filter C (degC)	51.7			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	29.6			
PSU Dil Flow C (lpm)	29.6			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

To: Sebastian.Berenz@vw.com[Sebastian.Berenz@vw.com]
From: Sohacki, Lynn
Sent: Mon 1/28/2013 8:48:31 PM
Subject: Test data for in-use vehicle **Ex. 7**
S108RXX-0047.pdf

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Mon 1/28/2013 10:01:02 PM
Subject: RE: Test data for in-use vehicle S108-0047
Sebastian.berenz@vw.com

Thanks for the information.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, January 28, 2013 3:49 PM
To: Berenz, Sebastian (EEO)
Subject: Test data for in-use vehicle S108-0047

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: S108RXX-0047.pdf)

To: Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Berenz, Sebastian (EEO)
Sent: Mon 1/28/2013 10:01:02 PM
Subject: RE: Test data for in-use vehicle S108-0047

Thanks for the information.

Best regards,

Sebastian Berenz

Manager In-Use Emission Compliance

Engineering Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

Before you print it, think about your responsibility and commitment to the **ENVIRONMENT**!

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, January 28, 2013 3:49 PM
To: Berenz, Sebastian (EEO)
Subject: Test data for in-use vehicle S108-0047

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: S108RXX-0047.pdf)

To: richard.thomas@vw.com[]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Tue 1/29/2013 10:13:41 PM
Subject: re: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible
VW_Group_2013 FEGuide new labels-all rel dates-no-sales-1-25-2013.xlsx
VW_Group_2014 FEGuide-all rel dates-no-sales-1-25-2013.xlsx

Richard,

re: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible

Our macro picked up some errors in your 2013 Labels. If possible please correct them before 2/1/2013---so I can send the data to DOE for posting on the web (for the Feb 1st posting).

Sorry about the late notice. I'll also include the 2014 Labels FYI--they looked OK to me.

Thanks

VW FOIA, EPA 06/20/2017 2017-FFP_005886

EPA comm	VERIFY cc	Model Yr (Mfr Name	Division (t	Carline	Verify Mfr	Index (Mo	Eng Displ	# Cyl
Diesel; HigY		2013 Volkswage	Volkswage	BEETLE CVWX		135	2.0	4
		2013 Lamborghi	hamborghi	Aventador RoX	Roadster	93	6.5	12

Trans as I	City FE (G	Hwy FE (C	Comb FE	Low'd City	Low'd HW	Low'd Cor	City Unad	Hwy Unad	Comb Una
Auto(AM-S	28	36	31		36		38.4000	51.9000	42.0514
Auto(AM-S7)	10	16	12				11.5000	21.2000	14.4817

n combined unrounded adjusted CO2 value, we calculate 324.8; Error in Rounded Adjusted combined CO2, we calc

[illegible]	[illegible]	[illegible]	Guzzler?	Air Aspir I	Air Aspira	Trans	Trans Des	Trans, Otl	# Gears
ulate 324; Please revise/verify as needed.									
28.0188	36.6005	31.3238		TC	Turbochar	AMS	Automated		6
9.7957	16.2453	11.9264	G	NA	Naturally A	AMS	Automated	Manual- Selectable	7 (e.g. Au

Lockup Tc	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
tomated Manual with paddles)		2-Wheel D	DVWXV02.0U5N			5		DU	Diesel, ultr
Yomated Manual with Apaddles)		All Wheel D	DVWXV06.5L83		10			GPR	Gasoline (Premium

PFCentralized Gas Fuel	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
Per Unit	Per Unit							
ulfur (15 ppm, maximum)								
MPG	miles per gN	Not exemp	81	7				
Unleaded Required								
MPG	miles per gallon	Not exempt						

Annual Fu	EPA Calcı	Comment	City2 FE ((	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
1850	1850								
4750	4750	adjusted release date, lock up to YES., CO2 corrections Aug 14th, S/S set to yes							

Hwy2 UnaComb2 UrCnty2 UnrHwy2 UnrCmb2 Unr Range2 -	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit

Fuel2 Alt	City CO2	Hwy CO2	Comb CO	Fuel2 EPA	Descripto	Intake Val	Exhaust V	Carline Cl	Carline Cl
Alternative Fuel						2	23		Subcompa
						2	21		Two Seaters

Car/Truck	Calc Appr	Sales	Release D	EPA FE Label	Dataset ID	Unique La	Label Rec	Relabel	Relabel D
car	Derived 5-cycle label	1/10/2013	12997	[redacted]		N	N		
car	Vehicle Specific 5-cycle	1/14/2013	12234	[redacted]		N	N		

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N		N		N		N		
N	N		Y	ELECTRONI	CALLY CON	TROLLED	SYSTEM.	ELECTRO	

evice Desc	Energy St	# Batterie	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
DNCBNT									CONTINUOUSLY VVT	

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C	# Drive M	Motor Ger

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				CRDI	Common FN		N		5W40
				MFI	Multipoint/sequential	N	fuel injection	N	5W30 VW 50400 /

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
N	No	Auto(AM-S	Auto(AM-S						
Y	Yes	Auto(AM-S7)	Auto(AM-S7)						

[illegible]	[illegible]	EPA Calculated Gas G	[illegible]	[illegible]	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
42.3			8	7	DVWXV02	5		
14.5			1	1	DNLXV06.5L83	5		

| | | |

| [illegible] | [illegible] | [illegible] |

[illegible]	[illegible]	[illegible]	[illegible] Combined CO2 value (as shown on Label)		240V Char 120V Char PHEV Tota
279.0	196.0	241.7	363.0	278.0	325.0
771.0	418.0	612.2	902.0	547.0	742.2

| [illegible] | [illegible] | [illegible] |

[redacted]EPA_UNR[EPA_UNR[EPA_UNR[EPA_ADJ_[EPA_PHEVLabel SubrGHG 1-10 rating on Ethanol (EPA Deter

Mr Richard E Thomas Jr

Mr. Richard E Thomas Jr.

mined)

EPA comm	VERIFY cc	Model Yr (Mfr Name	Division (t	Carline	Verify Mfr	Index (Mo	Eng Displ	# Cyl
Diesel;		2014 Audi	Audi	A8L	ADX	1	3.0	6
		2014 Audi	Audi	R8	ADX	5	4.2	8
		2014 Audi	Audi	R8	ADX	9	4.2	8
		2014 Audi	Audi	R8	ADX	3	5.2	10
		2014 Audi	Audi	R8	ADX	7	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	4	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	8	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	2	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	6	5.2	10

Trans as I	City FE (G	Hwy FE (C	Comb FE	Low'd City	Low'd HW	Low'd Cor	City Unad	Hwy Unad	Comb Una
Auto(S8)	24	36	28				29.9399	51.4000	36.8664
Auto(AM-S7)	14	23	17				16.4710	29.7396	20.6087
Manual(M6)	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S7)	13	22	16				15.4000	28.8067	19.4796
Manual(M6)	12	19	14				13.7000	23.3840	16.8379
Auto(AM-S7)	14	23	17				16.4710	29.7396	20.6087
Manual(M6)	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S	13	22	16				15.4000	28.8067	19.4796
Manual(M	12	19	14				13.7000	23.3840	16.8379

City Unrd	Hwy Unrd	Comb Unr	Guzzler?	Air Aspir I	Air Aspira	Trans	Trans Des	Trans, Otl	# Gears	
23.8727	36.3252	28.2271		TC	Turbocharge	SA	Semi-Automatic		8	
13.5719	22.6008	16.5465	G	NA	Naturally A	SAM	Automated Manual- Selectable	7	(e.g. Au	
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6	
12.9942	22.2057	15.9766	G	NA	Naturally A	SAM	Automated Manual- Selectable	7	(e.g. Au	
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6	
13.5719	22.6008	16.5465	G	NA	Naturally A	SAM	Automated Manual- Selectable	7	(e.g. Au	
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6	
12.9942	22.2057	15.9766	G	NA	Naturally A	AMS	Automatec		7	
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6	

Lockup Tc	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
Y	N	A	All Wheel	DAVE	EADXJ03.04UG		5	DU	Diesel, ultra low s
Y	N	Manual with paddles)	All Wheel	DAVE	EADXV04.2375	10		GP	Gasoline (Premium
N	N	A	All Wheel	DAVE	EADXV04.2375	10		GP	Gasoline (Premium
Y	N	Manual with paddles)	All Wheel	DAVE	EADXV05.2LR8	10		GP	Gasoline (Premium
N	N	A	All Wheel	DAVE	EADXV05.2LR8	10		GP	Gasoline (Premium
Y	N	Manual with paddles)	All Wheel	DAVE	EADXV04.2375	10		GP	Gasoline (Premium
N	N	A	All Wheel	DAVE	EADXV04.2375	10		GP	Gasoline (Premium
Y	N	Manual with paddles)	All Wheel	IEADXV05.2		10		GP	Gasoline (F
N	N	A	All Wheel	IEADXV05.2		10		GP	Gasoline (F

Fuel Unit	Fuel Unit	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
MPG	miles per gallon	Unleaded (15 ppm, max gaso	Not exempt			107	15		
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						

Annual Fu	EPA Calcu	Comment	City2 FE (H	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
2050	2050	corrected unadjusted un-rounded combined fuel economy typo							
3300	3300								
4000	4000	corrected unrounded unadjusted combined CO2 value							
3500	3500								
4000	4000	CORRECTED THE GAS GUZZLER TO ADJ COMBINED VALUE, corrected CO2 values							
3300	3300								
4000	4000	corrected combined unadjusted unrounded CO2 value							
3500	3500								
4000	4000	corrected CO2 unadjusted unrounded values calculation error							

Hwy2 Unit	Comb2 Unit	Cmy2 Unit	Hwy2 Unit	Cmb2 Unit	Range2 -	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit

Fuel2 AltmCity CO2	Hwy CO2	Comb CO2	Fuel2 EPA	Descriptor	Intake Val	Exhaust V	Carline Cl	Carline Cl
					2	26		Large Cars
				SIDI;	2	21		Two Seaters
				SIDI;	2	21		Two Seaters
				SIDI;	2	21		Two Seaters
				SIDI;	2	21		Two Seaters
				SIDI;	2	21		Two Seaters
				SIDI;	2	21		Two Seaters
				SIDI;	2	21		Two Seate
				SIDI;	2	21		Two Seate

Car/Truck	Calc Appr	Sales	Release D	EPA FE Label Dataset ID	Unique La	Label Rec	Relabel	Relabel D
car	Vehicle Specific 5-cycle	2/4/2013		13034	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12975	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13038	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12971	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13036	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12974	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13037	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12970	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13035	N	N		

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N		N		N		N		
N	N		N		Y	CONTINUOU	N	US INTAKE AND EXHAUST CAM ADJUST	
N	N		N		Y	CONTINUOU	N	US INTAKE AND EXHAUST CAM ADJUST	
N	N	ENGINE COD	N	DE CEH (GALLARDO CO	Y	OUPE AND SPYDER)	INLET AND	N	OUTLET CONTINUOUSLY VARIABLE / M
N	N	ENGINE COD	N	DE CEH (GALLARDO CO	Y	OUPE AND SPYDER)	INLET AND	N	OUTLET CONTINUOUSLY VARIABLE / M
N	N		N		Y	CONTINUOU	N	US INTAKE AND EXHAUST CAM ADJUST	
N	N		N		Y	CONTINUOU	N	US INTAKE AND EXHAUST CAM ADJUST	
N	N	ENGINE CO	N		Y	INLET AND	N		
N	N	ENGINE CO	N		Y	INLET AND	N		

evice Desc	Energy St	# Batterie	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C#	Drive M(	Motor Ger

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				CRDI	Common Rail Direct Diesel Injection		N		5W30 VW 50700
				GDI	Spark Ignition Direct Injection		N		5W/30, VW50400
				GDI	Spark Ignition Direct Injection		N		5W/30, VW50400
				GDI	Spark Ignition Direct Injection		N		10W60 VW 50101
				GDI	Spark Ignition Direct Injection		N		10W60 VW 50101
				GDI	Spark Ignition Direct Injection		N		5W/30, VW50400
				GDI	Spark Ignition Direct Injection		N		5W/30, VW50400
				GDI	Spark Ignit		N		10W60 VW
				GDI	Spark Ignit		N		10W60 VW

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
Y	Yes	Auto(S8)	Auto(S8)						
N	No	Auto(AM-S7)	Auto(AM-S7)						
N	No	Manual(M6)	Manual(M6)						
Y	50500	No	Auto(AM-S7)	Auto(AM-S7)					
Y	50500	No	Manual(M6)	Manual(M6)					
N		No	Auto(AM-S7)	Auto(AM-S7)					
N		No	Manual(M6)	Manual(M6)					
Y	50500	No	Auto(AM-S	Auto(AM-S					
Y	50500	No	Manual(M	Manual(M					

[illegible]	EPA Calculated Gas G	[illegible]	[illegible] (GHG Ratin	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
36.9	[redacted]	7	6	EADXJ03.04UG	5		
20.8	[redacted]	3	3	EADXV04.2375	5		
17.2	[redacted]	2	2	EADXV04.2375	5		
19.6	[redacted]	3	3	EADXV05.2LR8	5		
17.0	[redacted]	2	2	EADXV05.2LR8	5		
20.8	[redacted]	3	3	EADXV04.2375	5		
17.2	[redacted]	2	2	EADXV04.2375	5		
19.6	[redacted]	3	3	EADXV05.2	5		
16.8	[redacted]	2	2	EADXV05.2	5		

| | | |

| [illegible] | [illegible] | [illegible] |

[illegible]	[illegible]	[illegible]	[illegible]	240V Char	120V Char
339.0	198.0	275.6	425.6	280.1	360.1
540.1	299.6	431.9	655.8	394.0	538.0
650.6	360.5	520.1	770.1	435.7	619.6
577.0	309.4	456.6	685.6	400.2	557.2
646.2	378.3	525.6	754.5	455.5	620.0
540.1	299.6	431.9	655.8	394.0	538.0
650.6	360.5	520.1	770.1	435.7	619.6
577.0	309.4	456.6	685.6	400.2	557.2
646.2	378.3	525.6	754.5	455.5	620.0

| [illegible] | [illegible] | [illegible] |

| [redacted] | [redacted] | [redacted] |

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To: richard.thomas@vw.com[]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Tue 1/29/2013 10:13:41 PM
Subject: re: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible
VW_Group_2013 FEGuide new labels-all rel dates-no-sales-1-25-2013.xlsx
VW_Group_2014 FEGuide-all rel dates-no-sales-1-25-2013.xlsx

Richard,

re: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible

Our macro picked up some errors in your 2013 Labels. If possible please correct them before 2/1/2013---so I can send the data to DOE for posting on the web (for the Feb 1st posting).

Sorry about the late notice. I'll also include the 2014 Labels FYI--they looked OK to me.

Thanks

VW FOIA, EPA 06/20/2017 2017-FFP_005937

EPA comm	VERIFY cc	Model Yr (Mfr Name	Division (t	Carline	Verify Mfr	Index (Mo	Eng Displ	# Cyl
Diesel; HigY		2013 Volkswage	Volkswage	BEETLE CV	WX	135	2.0	4
		2013 Lamborghi	Lamborghini	Aventador R	LX	93	6.5	12

Trans as I	City FE (G	Hwy FE (C	Comb FE	Low'd City	Low'd HW	Low'd Cor	City Unad	Hwy Unad	Comb Una
Auto(AM-S	28	36	31		36		38.4000	51.9000	42.0514
Auto(AM-S7)	10	16	12				11.5000	21.2000	14.4817

n combined unrounded adjusted CO2 value, we calculate 324.8; Error in Rounded Adjusted combined CO2, we calc

City Unrd	Hwy Unrd	Comb Unr	Guzzler?	Air Aspir I	Air Aspira	Trans	Trans Des	Trans, Otl	# Gears
ulate 324; Please revise/verify as needed.									
28.0188	36.6005	31.3238		TC	Turbochar	AMS	Automated		6
9.7957	16.2453	11.9264	G	NA	Naturally A	AMS	Automated Manual- Selectable		7 (e.g. Au

Lockup Tc	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
tomated Manual with paddles)		2-Wheel D	DVWXV02.0U5N			5		DU	Diesel, ultr
Y	N	P							
Yomated Manual with Apaddles)		All Wheel Drive	DVWXV06.5L83		10			GPR	Gasoline (Premium

[redacted]	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
ulfur (15 ppm, maximum)								
MPG	miles per gN	Not exemp	81	7				
Unleaded Required	Pulse per gallon	Not exempt						

Annual Fu	EPA Calcı	Comment	City2 FE (I	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
1850	1850								
4750	4750	adjusted release date, lock up to YES., CO2 corrections Aug 14th, S/S set to yes							

Hwy2 Unit	Comb2 Unit	Hwy2 Unit	Comb2 Unit	Range2 -	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit
Alternative Fuel								

Fuel2 Alt	City CO2	Hwy CO2	Comb CO	Fuel2 EPA	Descripto	Intake Val	Exhaust V	Carline Cl	Carline Cl
Alternative Fuel						2	23		Subcompa
						2	21		Two Seaters

Car/Truck	Calc Appr	Sales	Release D	EPA FE Label	Dataset ID	Unique La	Label Rec	Relabel	Relabel D
car	Derived 5-cycle label	1/10/2013	12997	[redacted]		N	N		
car	Vehicle Specific 5-cycle	1/14/2013	12234	[redacted]		N	N		

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N		N		N		N		
N	N		Y	ELECTRONI	CALLY CON	TROLLED	HYDRAULI	C VALVE	SYSTEM.

evice Desc	Energy St	# Batteries	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
DNCDNT									CONTINUOUSLY VVT	

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C#	Drive M(	Motor Ger

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				CRDI	Common FN		N		5W40
				MFI	Multipoint/sequential	N	fuel injection	N	5W30 VW 50400 /

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
N	No	Auto(AM-S	Auto(AM-S						
Y	Yes	Auto(AM-S7)	Auto(AM-S7)						

[illegible]	[illegible]	EPA Calculated Gas G	[illegible]	[illegible]	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
42.3	[redacted]		8	7	DVWXV02	5		
14.5			1	1	DNLXV06.5L83	5		

#3 Smog R #3 Mfr Sm #3 EPA Sm SmartWay #4 Smog R #4 Mfr Sm

| [illegible] | [illegible] | [illegible] |

				240V Char	120V Char PHEV Tota
279.0	196.0	241.7	363.0	278.0	325.0
771.0	418.0	612.2	902.0	547.0	742.2

| [illegible] | [illegible] | [illegible] |

[redacted]_UNR[EPA_UNR[EPA_UNR[EPA_ADJ_[EPA_PHEVLabel SubrGHG 1-10 rating on Ethanol (EPA Deter

Mr Richard E Thomas Jr

Mr. Richard E Thomas Jr.

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EPA comm	VERIFY cc	Model Yr (Mfr Name	Division (t	Carline	Verify Mfr	Index (Mo	Eng Displ	# Cyl
Diesel;		2014 Audi	Audi	A8L	ADX	1	3.0	6
		2014 Audi	Audi	R8	ADX	5	4.2	8
		2014 Audi	Audi	R8	ADX	9	4.2	8
		2014 Audi	Audi	R8	ADX	3	5.2	10
		2014 Audi	Audi	R8	ADX	7	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	4	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	8	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	2	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	6	5.2	10

Trans as I	City FE (G	Hwy FE (C	Comb FE	Low'd City	Low'd HW	Low'd Cor	City Unad	Hwy Unad	Comb Una
Auto(S8)	24	36	28				29.9399	51.4000	36.8664
Auto(AM-S7)	14	23	17				16.4710	29.7396	20.6087
Manual(M6)	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S7)	13	22	16				15.4000	28.8067	19.4796
Manual(M6)	12	19	14				13.7000	23.3840	16.8379
Auto(AM-S7)	14	23	17				16.4710	29.7396	20.6087
Manual(M6)	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S	13	22	16				15.4000	28.8067	19.4796
Manual(M	12	19	14				13.7000	23.3840	16.8379

City Unrd	Hwy Unrd	Comb Unr	Guzzler?	Air Aspir I	Air Aspira	Trans	Trans Des	Trans, Otl	# Gears	
23.8727	36.3252	28.2271		TC	Turbocharge	SA	Semi-Automatic		8	
13.5719	22.6008	16.5465	G	NA	Naturally A	SAM	Automated Manual- Selectable		7	(e.g. Au
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6	
12.9942	22.2057	15.9766	G	NA	Naturally A	SAM	Automated Manual- Selectable		7	(e.g. Au
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6	
13.5719	22.6008	16.5465	G	NA	Naturally A	SAM	Automated Manual- Selectable		7	(e.g. Au
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6	
12.9942	22.2057	15.9766	G	NA	Naturally A	AMS	Automatec		7	
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6	

Lockup Tc	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
Y	N	A	All Wheel D	EADXJ03.04	UG	5		DU	Diesel, ultra low s
Y	N	A	All Wheel D	EADXV04.2375	10			GP	Gasoline (Premium
N	N	A	All Wheel D	EADXV04.2375	10			GP	Gasoline (Premium
Y	N	A	All Wheel D	EADXV05.2LR8	10			GP	Gasoline (Premium
N	N	A	All Wheel D	EADXV05.2LR8	10			GP	Gasoline (Premium
Y	N	A	All Wheel D	EADXV04.2375	10			GP	Gasoline (Premium
N	N	A	All Wheel D	EADXV04.2375	10			GP	Gasoline (Premium
Y	N	A	All Wheel D	EADXV05.2	10			GP	Gasoline (F
N	N	A	All Wheel D	EADXV05.2	10			GP	Gasoline (F

Fuel Unit	Fuel Unit	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
MPG	miles per gallon	Unleaded Recommended)	Not exempt			107	15		
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						
MPG	miles per gallon	Unleaded Recommended)	Not exempt						

Annual Fu	EPA Calcu	Comment	City2 FE (I	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
2050	2050	corrected unadjusted un-rounded combined fuel economy typo							
3300	3300								
4000	4000	corrected unrounded unadjusted combined CO2 value							
3500	3500								
4000	4000	CORRECTED THE GAS GUZZLER TO ADJ COMBINED VALUE, corrected CO2 values							
3300	3300								
4000	4000	corrected combined unadjusted unrounded CO2 value							
3500	3500								
4000	4000	corrected CO2 unadjusted unrounded values calculation error							

Hwy2 Unit	Comb2 Unit	Hwy2 Unit	Comb2 Unit	Range2 -	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit
Alternative Fuel								

Fuel2 AltnFuel	Fuel2 AltnCity CO2	Hwy CO2	Comb CO2	Fuel2 EPA	Descriptor	Intake Val	Exhaust V	Carline Cl	Carline Cl
						2	26		Large Cars
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seate
					SIDI;	2	21		Two Seate

Car/Truck	Calc Appr	Sales	Release D	EPA FE Label	Dataset ID	Unique La	Label Rec	Relabel	Relabel D
car	Vehicle Specific 5-cycle	2/4/2013		13034	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12975	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13038	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12971	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13036	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12974	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13037	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		12970	[redacted]	N	N		
car	Vehicle Specific 5-cycle	2/8/2013		13035	[redacted]	N	N		

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N		N		N		N		
N	N		N		Y	CONTINUOU	N	US INTAKE AND EXHAUST CAM ADJUST	
N	N		N		Y	CONTINUOU	N	US INTAKE AND EXHAUST CAM ADJUST	
N	N	ENGINE COD	E CEH (GALLARDO CO		UPE AND SPYDER)	INLET AND	N	OUTLET CONTINUOUSLY VARIABLE / M	
N	N	ENGINE COD	E CEH (GALLARDO CO		UPE AND SPYDER)	INLET AND	N	OUTLET CONTINUOUSLY VARIABLE / M	
N	N		N		Y	CONTINUOU	N	US INTAKE AND EXHAUST CAM ADJUST	
N	N		N		Y	CONTINUOU	N	US INTAKE AND EXHAUST CAM ADJUST	
N	N	ENGINE CO	N		Y	INLET AND	N		
N	N	ENGINE CO	N		Y	INLET AND	N		

evice Desc	Energy St	# Batteries	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C#	Drive M(	Motor Ger

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				CRDI	Common Rail Direct Diesel Injection		N		5W30 VW 50700
				GDI	Spark Ignition Direct Injection		N		5W/30, VW50400
				GDI	Spark Ignition Direct Injection		N		5W/30, VW50400
				GDI	Spark Ignition Direct Injection		N		10W60 VW 50101
				GDI	Spark Ignition Direct Injection		N		10W60 VW 50101
				GDI	Spark Ignition Direct Injection		N		5W/30, VW50400
				GDI	Spark Ignition Direct Injection		N		5W/30, VW50400
				GDI	Spark Ignit		N		10W60 VW
				GDI	Spark Ignit		N		10W60 VW

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
Y	Yes	Auto(S8)	Auto(S8)						
N	No	Auto(AM-S7)	Auto(AM-S7)						
N	No	Manual(M6)	Manual(M6)						
Y	50500	No	Auto(AM-S7)	Auto(AM-S7)					
Y	50500	No	Manual(M6)	Manual(M6)					
N		No	Auto(AM-S7)	Auto(AM-S7)					
N		No	Manual(M6)	Manual(M6)					
Y	50500	No	Auto(AM-S	Auto(AM-S					
Y	50500	No	Manual(M	Manual(M					

[illegible]	EPA Calculated Gas G	[illegible]	[illegible] (GHG Ratin	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
36.9	[redacted]	7	6	EADXJ03.04UG	5		
20.8	[redacted]	3	3	EADXV04.2375	5		
17.2	[redacted]	2	2	EADXV04.2375	5		
19.6	[redacted]	3	3	EADXV05.2LR8	5		
17.0	[redacted]	2	2	EADXV05.2LR8	5		
20.8	[redacted]	3	3	EADXV04.2375	5		
17.2	[redacted]	2	2	EADXV04.2375	5		
19.6	[redacted]	3	3	EADXV05.2	5		
16.8	[redacted]	2	2	EADXV05.2	5		

| | | |

[illegible]	You Save $	You Spend $	City CO2 R	Hwy CO2 R	Comb CO2	CO2- Volu	CO2- Volu	CO2-Vol In
[illegible]	1350		426	280	360			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			

[illegible]	[illegible]	[illegible]	[illegible]	240V Char	120V Char
339.0	198.0	275.6	425.6	280.1	360.1
540.1	299.6	431.9	655.8	394.0	538.0
650.6	360.5	520.1	770.1	435.7	619.6
577.0	309.4	456.6	685.6	400.2	557.2
646.2	378.3	525.6	754.5	455.5	620.0
540.1	299.6	431.9	655.8	394.0	538.0
650.6	360.5	520.1	770.1	435.7	619.6
577.0	309.4	456.6	685.6	400.2	557.2
646.2	378.3	525.6	754.5	455.5	620.0

| [illegible] | [illegible] | [illegible] |

| [redacted] | [redacted] | [redacted] |

mined)

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Tue 1/29/2013 10:13:41 PM
Subject: re: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible
VW_Group_2013 FEGuide new labels-all rel dates-no-sales-1-25-2013.xlsx
VW_Group_2014 FEGuide-all rel dates-no-sales-1-25-2013.xlsx

Richard,

re: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible

Our macro picked up some errors in your 2013 Labels. If possible please correct them before 2/1/2013---so I can send the data to DOE for posting on the web (for the Feb 1st posting).

Sorry about the late notice. I'll also include the 2014 Labels FYI--they looked OK to me.

Thanks

To: David Good/AA/USEPA/US@EPA[]
Cc: Jim Snyder/AA/USEPA/US@EPA[]
From: "Thomas, Richard (EEO)"
Sent: Wed 1/30/2013 11:29:39 AM
Subject: RE: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible

Hello Dave;

I have corrected the 2013 label #135, it should be okay now.

Thanks,

Richard

From: Good.David@epamail.epa.gov [mailto:Good.David@epamail.epa.gov]
Sent: Tuesday, January 29, 2013 5:14 PM
To: Thomas, Richard (EEO)
Cc: Snyder.Jim@epamail.epa.gov
Subject: re: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible

Richard,

re: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible

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Thanks

(See attached file: VW_Group_2013 FEGuide new labels-all rel dates-no-sales-1-25-2013.xlsx)(See attached file: VW_Group_2014 FEGuide-all rel dates-no-sales-1-25-2013.xlsx)

VW FOIA, EPA 06/20/2017 2017-FFP_005989

To: Good, David[good.david@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 1/30/2013 11:29:39 AM
Subject: RE: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible

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Cc: Snyder.Jim@epamail.epa.gov
Subject: re: 2013 FE Guide - Errors in Verify as of 1/27/2013 which need correcting before 2/1/2013 if possible

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To: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 1/30/2013 9:32:49 PM
Subject: VW wants to use a common mfr code for VW Group

Richard, I left you a voice mail but this is probably better. I reviewed Volkswagen Group's proposal to have a common Mfr code with separate manufacturer names on the VECI labels. I checked with our lawyer regarding the reg language and there's no issue with accepting this. We all think its okay so I don't think we need a meeting to discuss this.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

VW FOIA, EPA 06/20/2017 2017-FFP_005991

To: Jim Snyder/AA/USEPA/US@EPA[]
From: "Thomas, Richard (EEO)"
Sent: Thur 1/31/2013 2:05:16 PM
Subject: RE: VW wants to use a common mfr code for VW Group
snyder.jim@epa.gov

Hi Jim;

Thanks for the note and voice mail. Can you track down Bob Peavyhouse sometime and ask if he will be able to handle the changes and what, if anything, we (the EEO) can do to assist. If you could explain that this scenario was approved by the upper management of the Volkswagen Group and now we need to make the modifications because the factory is beginning to create Group test groups names. They will use the new Group code "VGA" for 2015 model year. The brands under this new code would be; ADX, VWX, BEX, NLX and BGT for Audi, Volkswagen, Bentley, Lamborghini and Bugatti respectively.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Wednesday, January 30, 2013 4:33 PM
To: Thomas, Richard (EEO)
Subject: VW wants to use a common mfr code for VW Group

Richard, I left you a voice mail but this is probably better. I reviewed Volkswagen Group's proposal to have a common Mfr code with separate manufacturer names on the VECI labels. I checked with our lawyer regarding the reg language and there's no issue with accepting this. We all think its okay so I don't think we need a meeting to discuss this.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

VW FOIA, EPA 06/20/2017 2017-FFP_005993

To: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 1/31/2013 9:43:19 PM
Subject: RE: VW wants to use a common mfr code for VW Group
snyder.jim@epa.gov

I talked to Bob beforehand and supported it. I think he looks forward to this simplifying calculations. I'll ask him if there is anything else needed to be done.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 01/31/2013 09:06 AM
Subject: RE: VW wants to use a common mfr code for VW Group

Hi Jim;

Thanks for the note and voice mail. Can you track down Bob Peavyhouse sometime and ask if he will be able to handle the changes and what, if anything, we (the EEO) can do to assist. If you could explain that this scenario was approved by the upper management of the Volkswagen Group and now we need to make the modifications because the factory is beginning to create Group test groups names. They will use the new Group code "VGA" for 2015 model year. The brands under this new code would be; ADX, VWX, BEX, NLX and BGT for Audi, Volkswagen, Bentley, Lamborghini and Bugatti respectively.

Thanks,
Richard

Richard E. Thomas
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3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Wednesday, January 30, 2013 4:33 PM
To: Thomas, Richard (EEO)
Subject: VW wants to use a common mfr code for VW Group

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Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

VW FOIA, EPA 06/20/2017 2017-FFP_005995

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Snyder, Jim
Sent: Thur 1/31/2013 9:43:19 PM
Subject: Ex. 4 - CBI

I talked to Bob beforehand and supported it. I think he looks forward to this simplifying calculations. I'll ask him if there is anything else needed to be done.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 01/31/2013 09:06 AM
Subject: Ex. 4 - CBI

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Ex. 4 - CBI

respectively.

Thanks,
Richard

Richard E. Thomas
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Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Wednesday, January 30, 2013 4:33 PM

To: Thomas, Richard (EEO)
Subject: Ex. 4 - CBI

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Ex. 4 - CBI
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Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Jim Snyder/AA/USEPA/US@EPA[]
From: "Thomas, Richard (EEO)"
Sent: Fri 2/1/2013 11:05:24 AM
Subject: RE: VW wants to use a common mfr code for VW Group
snyder.jim@epa.gov
Richard.Thomas@vw.com
Richard.Thomas@VW.com
Snyder.Jim@epamail.epa.gov
mailto:Snyder.Jim@epamail.epa.gov
snyder.jim@epa.gov

Great, thanks.

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Thursday, January 31, 2013 4:43 PM
To: Thomas, Richard (EEO)
Subject: RE: VW wants to use a common mfr code for VW Group

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Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

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Thanks,
Richard

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Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

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Sent: Wednesday, January 30, 2013 4:33 PM
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Sent: Thursday, January 31, 2013 4:43 PM
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Ex. 4 - CBI

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Richard

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Fax: 248 754-4207
Richard.Thomas@VW.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Wednesday, January 30, 2013 4:33 PM
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Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Jim Snyder/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA[]; avid Good/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA[]
From: "Kata, Leonard (EEO)"
Sent: Wed 2/6/2013 4:53:59 AM
Subject: VW/EPA Certification Meeting October 29, 2012
00_Agenda_EPA_Cert-Test.pptx
01_Start_Stop_Survey.pptx
02_FFV.pptx
03_AWC.pptx
04_BEV_EPA.pptx
05_BEVx_2012_EPA.ppt
06_SAE_1634_EPA.pptx
07_PHEV.pptx
08_Energy_assist_EPA.pptx
VW EPA Cert Meeting Oct 29,2012.pdf

Hello Jim, Dave, and Chris:

I know that some time has passed since we met in October 2012, but I would appreciate it if you would take a look at the meeting report and provide any comments or feedback. Other EPA staff participated as well and may wish to contribute their comments.

I have attached all of the slides from our meeting, for ready reference. The report is the last attachment. Please let me know if this should go into VERIFY.

Since the report indicates some follow-up on the part of VW and EPA, we would appreciate an opportunity to have a telephone conference/webinar to discuss the open points.

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

VW FOIA, EPA 06/20/2017 2017-FFP_006002

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

VW FOIA, EPA 06/20/2017 2017-FFP_006003

To: CN=David Good/OU=AA/O=USEPA/C=US@EPA[]
Cc: []
Bcc: []
From: "Thomas, Richard (EEO)"
Sent: Wed 2/6/2013 2:01:29 PM
Subject: 2013 Beetle Convertible Image

[attachment "winmail.dat" deleted by David Good/AA/USEPA/US]
[attachment "121116_VW_Beetle_1062 copy.jpg" deleted by David Good/AA/USEPA/US]
Hi Dave;

Could you please forward this image to Janet at DOE to include it in the 2013 fuel economy guide and the web site. I noticed that there was no image for the Beetle Convertible and the fuel economy dot gov site.

Thanks,
Richard

To: "Boundy, Robert Gary" [boundyrg@ornl.gov]
Cc: David Good/AA/USEPA/US@EPA;"Thomas, Richard (EEO)" [Richard.Thomas@vw.com]; Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
From: "Hopson, Janet L."
Sent: Wed 2/6/2013 6:08:20 PM
Subject: FW: 2013 Beetle Convertible Photo for the web
winmail.dat
121116_VW_Beetle_1062 copy.jpg
121116_VW_Beetle_1062 copy.jpg.001
Richard.Thomas@vw.com

Hi Richard:

You are welcome to send these directly to Bob Boundy.

He is responsible for collecting the photos used on fueleconomy.gov.

Thanks!

Janet

From: Good.David@epamail.epa.gov [mailto:Good.David@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 12:48 PM
To: Hopson, Janet L.
Subject: Fw: 2013 Beetle Convertible Photo for the web

Janet,

Here's a picture for the web.

Dave
----- Forwarded by David Good/AA/USEPA/US on 02/06/2013 12:45 PM -----

From: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
To: David Good/AA/USEPA/US@EPA
Date: 02/06/2013 10:14 AM
Subject: 2013 Beetle Convertible Image

Hi Dave;

Could you please forward this image to Janet at DOE to include it in the 2013 fuel economy guide and the web site. I noticed that there was no image for the Beetle Convertible and the fuel economy dot gov site.

Thanks,
Richard

(See attached file: winmail.dat)(See attached file: 121116_VW_Beetle_1062 copy.jpg)

VW FOIA, EPA 06/20/2017 2017-FFP_006006

To: Lynn Sohacki/AA/USEPA/US@EPA;Bernd Liebner/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA;Vincent Mazaitis/AA/USEPA/US@EPA;JohnH White/AA/USEPA/US@EPA;Bruce Garrison/AA/USEPA/US@EPA;Mark Maury/AA/USEPA/US@EPA;" Ex. 7 Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov]; ernd Liebner/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA;Vincent Mazaitis/AA/USEPA/US@EPA;JohnH White/AA/USEPA/US@EPA;Bruce Garrison/AA/USEPA/US@EPA;Mark Maury/AA/USEPA/US@EPA;" Ex. 7 Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov]; oel Ball/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA;Vincent Mazaitis/AA/USEPA/US@EPA;JohnH White/AA/USEPA/US@EPA;Bruce Garrison/AA/USEPA/US@EPA;Mark Maury/AA/USEPA/US@EPA;" Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov]; im Snyder/AA/USEPA/US@EPA;Vincent Mazaitis/AA/USEPA/US@EPA;JohnH White/AA/USEPA/US@EPA;Bruce Garrison/AA/USEPA/US@EPA;Mark Maury/AA/USEPA/US@EPA;" Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov]; incent Mazaitis/AA/USEPA/US@EPA;JohnH White/AA/USEPA/US@EPA;Bruce Garrison/AA/USEPA/US@EPA;Mark Maury/AA/USEPA/US@EPA;" Ex. 7 Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov]; ohnH White/AA/USEPA/US@EPA;Bruce Garrison/AA/USEPA/US@EPA;Mark Maury/AA/USEPA/US@EPA;" Ex. 7 Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov]; ruce Garrison/AA/USEPA/US@EPA;Mark Maury/AA/USEPA/US@EPA;" Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov]; ark Maury/AA/USEPA/US@EPA;" Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov]; Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov]; Ex. 7 @arb.ca.gov" Ex. 7 @arb.ca.gov]
Cc:

From:
Sent: Wed 2/6/2013 8:55:47 PM
Subject: VW/Audi personnel change IUVP responsibities

http://www.volkswagen.com

Hello everybody,

I just want to inform you that we at VW/Audi have a personnel change for all in-use verification program related subjects within the Engineering and Environmental Office.

Mr. will take over my position as the responsible IUVP specialist for the next few years.

We will work side by side during the next couple weeks and get everything up to speed until I go back to Germany for good in march 2013.

Please contact in regards of any in-use compliance related subjects.

As a backup you can contact also Mr. with EEO at VWGoA for any in-use questions.

Thank you very much for all the support during the last couple years. I really enjoyed working with all of you.

I am grateful for the opportunities that I had with this position and I am looking forward to start a new project.

Best regards,

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

VW FOIA, EPA 06/20/2017 2017-FFP_006009

To: Sohacki, Lynn[sohacki.lynn@epa.gov]; Liebner, Bernd[liebner.bernd@epa.gov]; Ball, Joel[ball.joel@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]; Mazaitis, Vincent[mazaitis.vincent@epa.gov]; White, JohnH[white.johnh@epa.gov]; Garrison, Bruce[garrison.bruce@epa.gov]; Maury, Mark[maury.mark@epa.gov]; Ex. 7 Ex. 7 @arb.ca.gov)[Ex. 7 @arb.ca.gov]; Ex. 7 @arb.ca.gov Ex. 7 @arb.ca.gov]
Cc: Schmidt, Oliver (EEO)[Oliver.Schmidt@vw.com]; Johnson, Stuart (EEO)[Stuart.Johnson@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]; Horton, Garett[Garett.Horton@vw.com]; Barke, Matthias[Matthias.Barke@vw.com]
From: Berenz, Sebastian (EEO)
Sent: Wed 2/6/2013 8:55:47 PM
Subject: VW/Audi personnel change IUVP responsibities

Hello everybody,

I just want to inform you that we at VW/Audi have a personnel change for all in-use verification program related subjects within the Engineering and Environmental Office.

Mr. Tobias Glas will take over my position as the responsible IUVP specialist for the next few years.

We will work side by side during the next couple weeks and get everything up to speed until I go back to Germany for good in march 2013.

Please contact **Tobias** in regards of any in-use compliance related subjects.

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

As a backup you can contact also **Mr. Garett Horton** with EEO at VWGoA for any in-use questions.

Garett Horton

Engineering Analyst

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

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Cell: (248) 797-1198

Fax: (248) 754-4207

E-Mail: Garett.Horton@vw.com

Thank you very much for all the support during the last couple years. I really enjoyed working with all of you.

I am grateful for the opportunities that I had with this position and I am looking forward to start a new project.

Best regards,

Sebastian Berenz

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Phone: (248) 754-4211
Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com



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To: Berenz, Sebastian (EEO)[Sebastian.Berenz@vw.com]
From: Sohacki, Lynn
Sent: Wed 2/6/2013 9:03:03 PM
Subject: Re: VW/Audi personnel change IUVP responsibilities

Hi, Sebastian.

Thank you for the introduction to Mr. Tobias Glas.

It was great working with you! I wish you the best as you return to Germany.

Sincerely,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Jim Snyder/AA/USEPA/US@EPA, Vincent Mazaitis/AA/USEPA/US@EPA, JohnH White/AA/USEPA/US@EPA, Bruce Garrison/AA/USEPA/US@EPA, Mark Maury/AA/USEPA/US@EPA, "Ex. 7 Ex. 7 @arb.ca.gov)" Ex. 7 @arb.ca.gov>, Ex. 7 @arb.ca.gov" Ex. 7 @arb.ca.gov>
Cc: "Schmidt, Oliver (EEO)" <Oliver.Schmidt@vw.com>, "Johnson, Stuart (EEO)" <Stuart.Johnson@vw.com>, "Glas, Tobias" <Tobias.Glas@vw.com>, "Horton, Garett" <Garett.Horton@vw.com>, "Barke, Matthias" <Matthias.Barke@vw.com>
Date: 02/06/2013 03:55 PM
Subject: VW/Audi personnel change IUVP responsibities

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Best regards,

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E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

P **Before you print it,** think about your responsibility and commitment to the **ENVIRONMENT**!

To: Tobias.Glas@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 2/6/2013 9:06:41 PM
Subject: Hello!

Hi, Tobias.

I look forward to working with you in EPA's in-use program. Please feel free to call me if you have any questions.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

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To: "Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Wed 2/6/2013 9:20:44 PM
Subject: RE: VW/Audi personnel change IUVP responsibilities
Sebastian.berenz@vw.com
Sebastian.Berenz@vw.com
Ex. 7 @arb.ca.gov
@arb.ca.gov
@arb.ca.gov
@arb.ca.gov
Oliver.Schmidt@vw.com
Stuart.Johnson@vw.com
Tobias.Glas@vw.com
Garett.Horton@vw.com
Matthias.Barke@vw.com
Tobias.Glas@vw.com
Garett.Horton@vw.com
Sebastian.berenz@vw.com
http://www.volkswagen.com
(embedded image)

Of course. Vehicle S108RXX-0014 tested today. Hopefully we will get the data tomorrow.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 02/06/2013 04:08 PM
Subject: RE: VW/Audi personnel change IUVP responsibilities

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So do me a favor and keep us both in the loop for the time being since I just want to finish the TDI surveillance program first.

Best regards,

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From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:03 PM
To: Berenz, Sebastian (EEO)
Subject: Re: VW/Audi personnel change IUVP responsibilities

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Sincerely,

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734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---02/06/2013 03:55:51 PM---Hello everybody, I just want to inform you that we at VW/Audi have a personnel change for all in-use

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Jim Snyder/AA/USEPA/US@EPA, Vincent Mazaitis/AA/USEPA/US@EPA, JohnH White/AA/USEPA/US@EPA, Bruce Garrison/AA/USEPA/US@EPA, Mark Maury/AA/USEPA/US@EPA, "Ex. 7
Ex. 7 @arb.ca.gov>
Cc: "Schmidt, Oliver (EEO)" <Oliver.Schmidt@vw.com>, "Johnson, Stuart (EEO)" <Stuart.Johnson@vw.com>, "Glas, Tobias" <Tobias.Glas@vw.com>, "Horton, Garett" <Garett.Horton@vw.com>, "Barke, Matthias" <Matthias.Barke@vw.com>
Date: 02/06/2013 03:55 PM
Subject: VW/Audi personnel change IUVP responsibities

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Auburn Hills, MI 48326
United States of America
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Cell: (248) 494-1537
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E-Mail: Tobias.Glas@vw.com

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Auburn Hills, MI 48326
United States of America

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VW FOIA, EPA 06/20/2017 2017-FFP_006019

Cell: (248) 736-3487
FAX: (248) 754-4207
E-Mail: Sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian (EEO)"
Sent: Wed 2/6/2013 9:22:20 PM
Subject: RE: VW/Audi personnel change IUVP responsibilities
Sebastian.berenz@vw.com
Sebastian.Berenz@vw.com
Sebastian.berenz@vw.com
http://www.volkswagen.com
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Garett.Horton@vw.com
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Tobias.Glas@vw.com
Garett.Horton@vw.com
Sebastian.berenz@vw.com
http://www.volkswagen.com
image001.gif

Thanks for the heads-up!

Let me know when you have the results or any questions.

Sebastian Berenz

Manager In-Use Emission Compliance

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Volkswagen Group of America, Inc.
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From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:21 PM
To: Berenz, Sebastian (EEO)
Subject: RE: VW/Audi personnel change IUVP responsibilities

Of course. Vehicle S108RXX-0014 tested today. Hopefully we will get the data tomorrow.

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

"Berenz, Sebastian (EEO)" ---02/06/2013 04:08:59 PM---Thank you very much Lynn. We will work together until the end of march and I had the chance to bring

From: "Berenz, Sebastian (EEO)" <Sebastian.Berenz@vw.com>
To: Lynn Sohacki/AA/USEPA/US@EPA
Date: 02/06/2013 04:08 PM
Subject: RE: VW/Audi personnel change IUVP responsibilities

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Manager In-Use Emission Compliance
Engineering Environmental Office

VW FOIA, EPA 06/20/2017 2017-FFP_006022

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Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
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FAX: (248) 754-4207
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http://www.volkswagen.com

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From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:03 PM
To: Berenz, Sebastian (EEO)
Subject: Re: VW/Audi personnel change IUVP responsibilities

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To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Jim Snyder/AA/USEPA/US@EPA, Vincent Mazaitis/AA/USEPA/US@EPA, JohnH White/AA/USEPA/US@EPA, Bruce Garrison/AA/USEPA/US@EPA, Mark Maury/AA/USEPA/US@EPA, Ex. 7
Ex. 7 @arb.ca.gov>, Ex. 7 @arb.ca.gov>
Cc: "Schmidt, Oliver (EEO)" <Oliver.Schmidt@vw.com>, "Johnson, Stuart (EEO)" <Stuart.Johnson@vw.com>, "Glas, Tobias" <Tobias.Glas@vw.com>, "Horton, Garett" <Garett.Horton@vw.com>, "Barke, Matthias" <Matthias.Barke@vw.com>
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VW FOIA, EPA 06/20/2017 2017-FFP_006024

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http://www.volkswagen.com

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VW FOIA, EPA 06/20/2017 2017-FFP_006025

To: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
Cc: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David Good/OU=AA/O=USEPA/C=US@EPA[]; N=David Good/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 2/6/2013 10:22:11 PM
Subject: Re: VW/EPA Certification Meeting October 29, 2012

I'll look it over.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard (EEO)" <Leonard.Kata@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA, David Good/AA/USEPA/US@EPA, Chris Nevers/AA/USEPA/US@EPA
Date: 02/06/2013 12:00 AM
Subject: VW/EPA Certification Meeting October 29, 2012

Hello Jim, Dave, and Chris:

I know that some time has passed since we met in October 2012, but I would appreciate it if you would take a look at the meeting report and provide any comments or feedback. Other EPA staff participated as well and may wish to contribute their comments.

I have attached all of the slides from our meeting, for ready reference. The report is the last attachment. Please let me know if this should go into VERIFY.

Since the report indicates some follow-up on the part of VW and EPA, we would appreciate an opportunity to have a telephone conference/webinar to discuss the open points.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com
[attachment "00_Agenda_EPA_Cert-Test.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "01_Start_Stop_Survey.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "02_FFV.pptx" deleted

VW FOIA, EPA 06/20/2017 2017-FFP_006026

by Jim Snyder/AA/USEPA/US] [attachment "03_AWC.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "04_BEV_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "05_BEVx_2012_EPA.ppt" deleted by Jim Snyder/AA/USEPA/US] [attachment "06_SAE_1634_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "07_PHEV.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "08_Energy_assist_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "VW EPA Cert Meeting Oct 29,2012.pdf" deleted by Jim Snyder/AA/USEPA/US]

To: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
Cc: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David Good/OU=AA/O=USEPA/C=US@EPA[]; N=David Good/OU=AA/O=USEPA/C=US@EPA[]
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 2/6/2013 10:22:11 PM
Subject: Re: VW/EPA Certification Meeting October 29, 2012

I'll look it over.

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Compliance Division
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(734) 214-4946
snyder.jim@epa.gov

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E-Mail: leonard.kata@vw.com
[attachment "00_Agenda_EPA_Cert-Test.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment

VW FOIA, EPA 06/20/2017 2017-FFP_006028

"01_Start_Stop_Survey.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "02_FFV.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "03_AWC.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "04_BEV_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "05_BEVx_2012_EPA.ppt" deleted by Jim Snyder/AA/USEPA/US] [attachment "06_SAE_1634_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "07_PHEV.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "08_Energy_assist_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "VW EPA Cert Meeting Oct 29,2012.pdf" deleted by Jim Snyder/AA/USEPA/US]

To: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
Cc: Nevers, Chris[nevers.chris@epa.gov]; Good, David[good.david@epa.gov]
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Sent: Wed 2/6/2013 10:22:11 PM
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Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com
[attachment "00_Agenda_EPA_Cert-Test.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "01_Start_Stop_Survey.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "02_FFV.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment

"03_AWC.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "04_BEV_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "05_BEVx_2012_EPA.ppt" deleted by Jim Snyder/AA/USEPA/US] [attachment "06_SAE_1634_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "07_PHEV.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "08_Energy_assist_EPA.pptx" deleted by Jim Snyder/AA/USEPA/US] [attachment "VW EPA Cert Meeting Oct 29,2012.pdf" deleted by Jim Snyder/AA/USEPA/US]

To: "Kata, Leonard (EEO)" [Leonard.Kata@vw.com]
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VW FOIA, EPA 06/20/2017 2017-FFP_006033

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Phone: (248) 754-4204
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VW FOIA, EPA 06/20/2017 2017-FFP_006034

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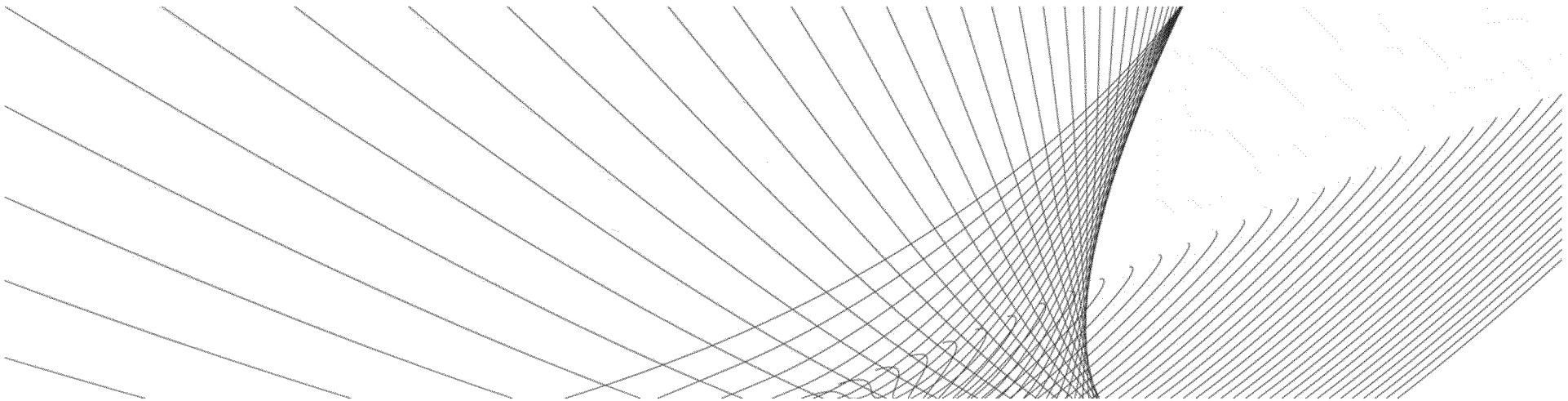
Leonard W. Kata
Senior Manager
Emission Regulations and Certification
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Volkswagen Group of America, Inc.

VW FOIA, EPA 06/20/2017 2017-FFP_006036

Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

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Volkswagen Group of America

EPA Meeting
October 29th , 2012

Agenda EPA – VWGoA Meeting

Ex. 4 - CBI

Agenda EPA – VWGoA Meeting

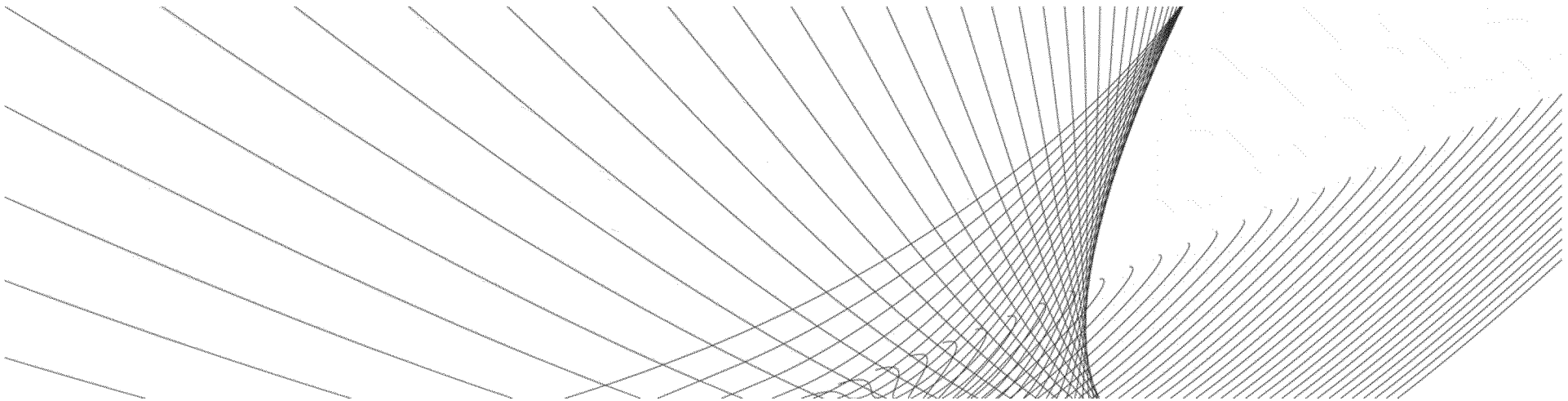
Ex. 4 - CBI

Agenda EPA – VWGoA Meeting

Ex. 4 - CBI

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EPA Meeting
October 29th , 2012

Ex. 4 - CBI

Ex. 4 - CBI

VW FOIA, EPA 06/20/2017 2017-FFP_006044

Ex. 4 - CBI

VW FOIA, EPA 06/20/2017 2017-FFP_006045

Ex. 4 - CBI

Ex. 4 - CBI

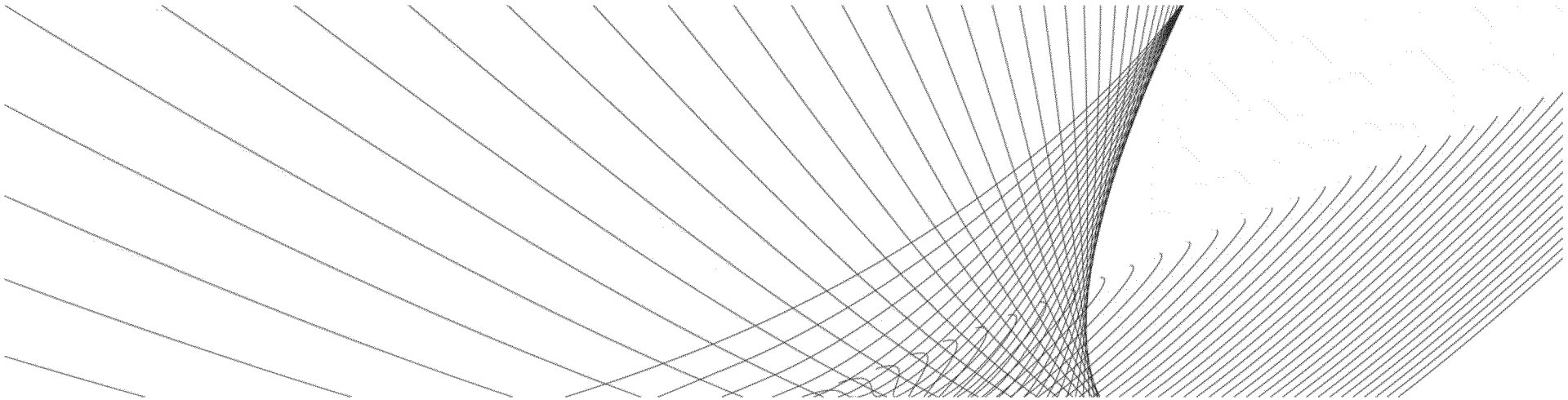
Ex. 4 - CBI

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EPA Meeting

Flex FuelVehicle – usage factors

October 29th, 2012

Ex. 4 - CBI

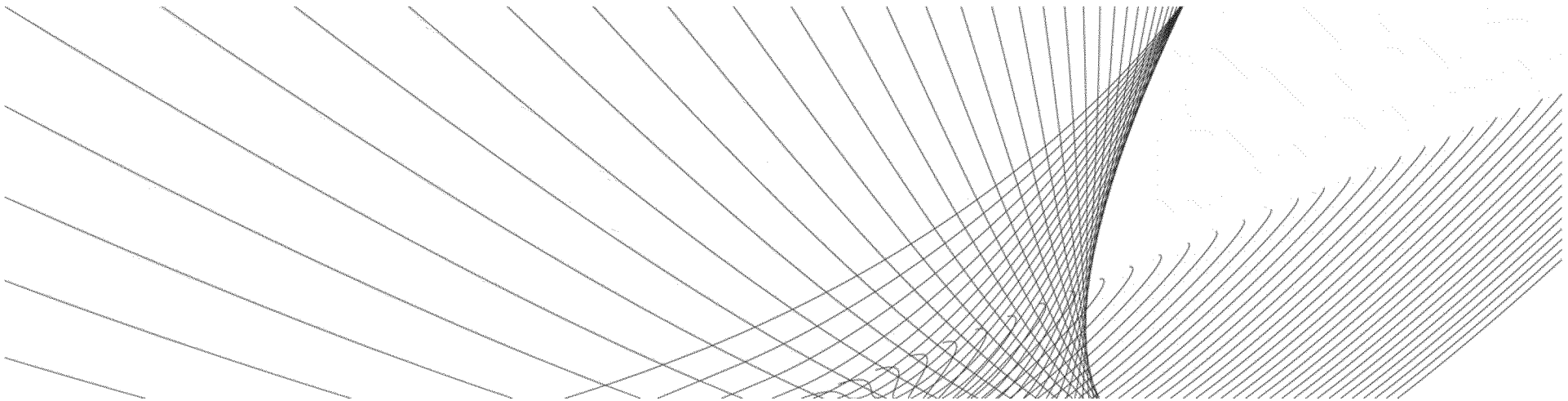
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EPA Meeting
October 29th , 2012

Ex. 4 - CBI

VW FOIA, EPA 06/20/2017 2017-FFP_006057

Ex. 4 - CBI

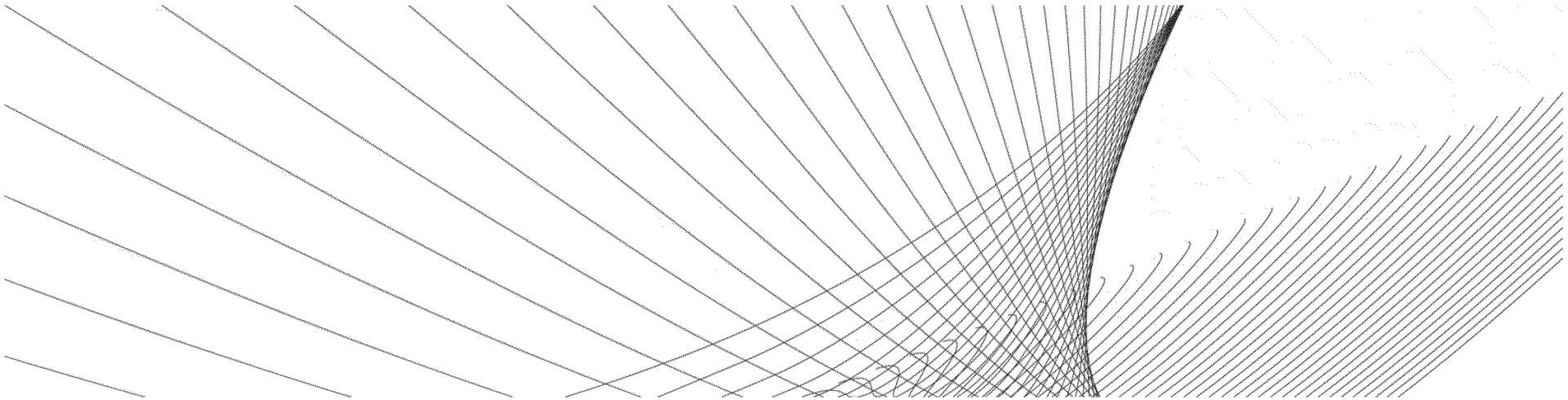
Ex. 4 - CBI

Ex. 4 - CBI

VW FOIA, EPA 06/20/2017 2017-FFP_006060

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EPA Meeting

Test procedure BEV

October 29th, 2012

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

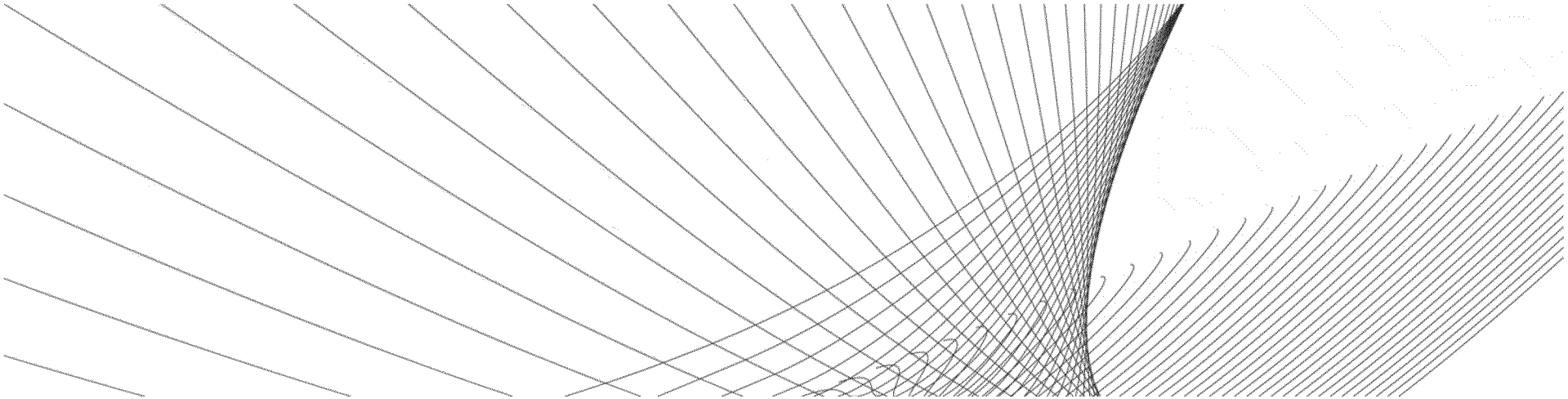
Test evaluation BEV

Fuel Economy Label



October 2012; VWGoA

Ex. 4 - CBI



Volkswagen Group of America

EPA Meeting – 29th, October 2012

BEVx and GHG CO2, Label and ZEV Credits

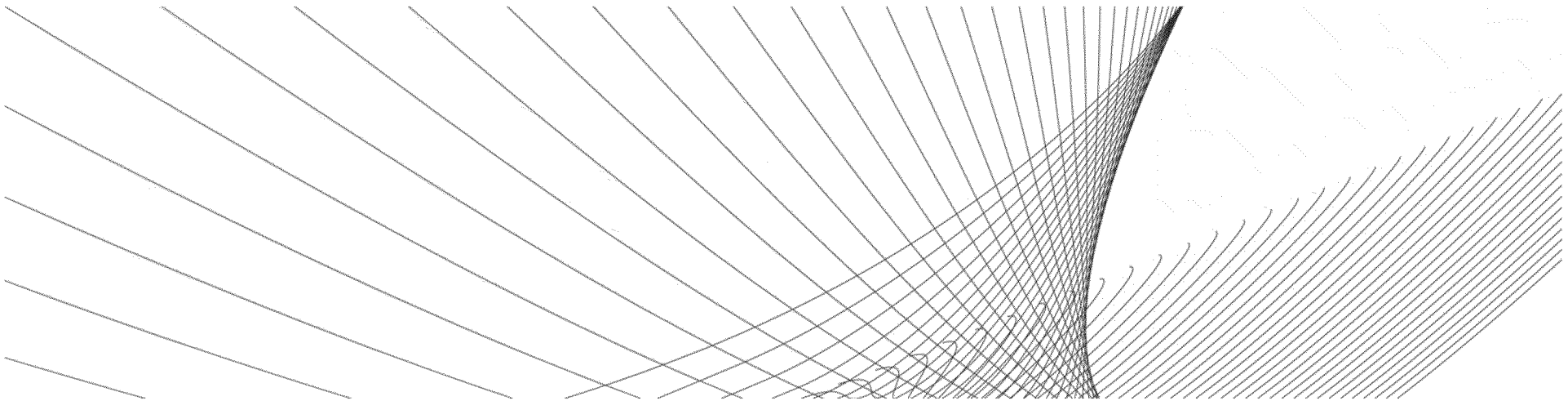
VW FOIA, EPA 06/20/2017 2017-FFP_006070

Ex. 4 - CBI

Ex. 4 - CBI

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EPA Meeting draft agenda
October 29th , 2012

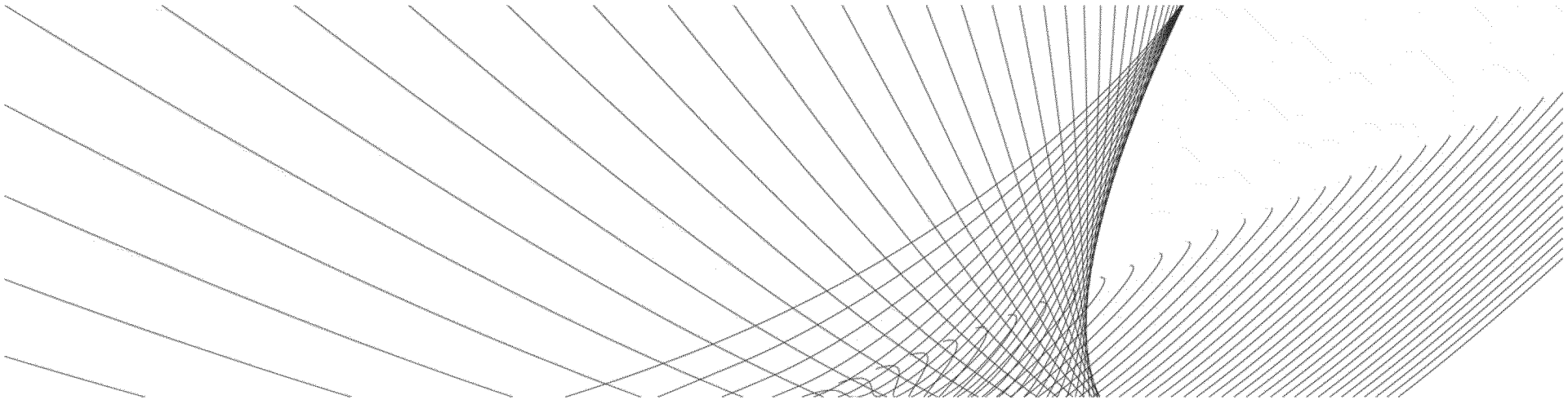
Ex. 4 - CBI

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Volkswagen Group of America

EPA Meeting

Test procedure PHEV

October 29th. 2012

Ex. 4 - CBI

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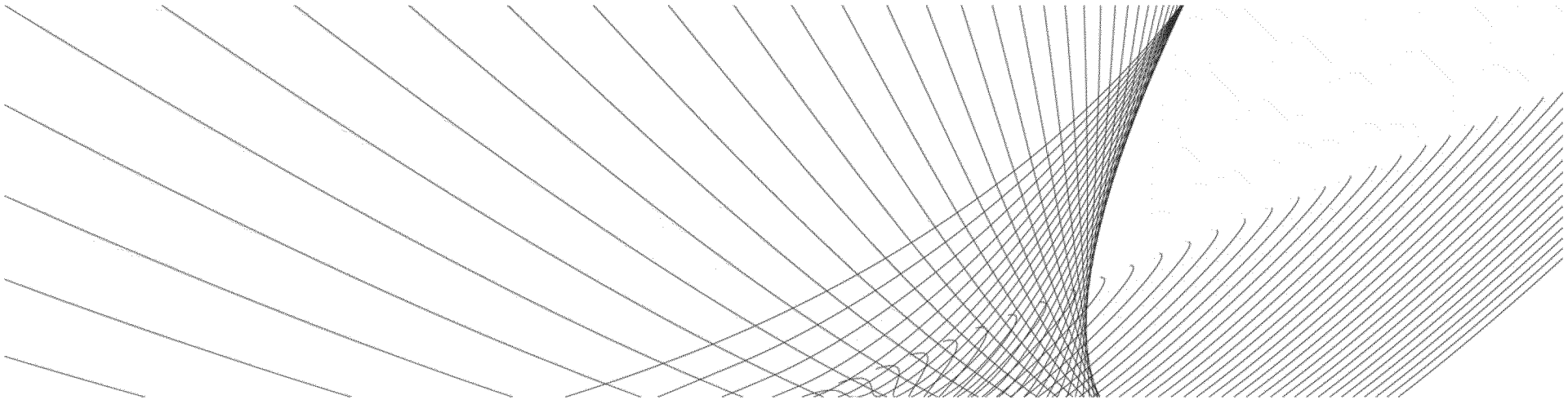
Ex. 4 - CBI

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October 2012; VWGoA

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Volkswagen Group of America

EPA Meeting

AUDI energy assist

October 29th , 2012

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

VW FOIA, EPA

Report – Emission Certification Meeting
U.S. Environmental Protection Agency
Ann Arbor, Michigan
October 29, 2012

VW Group Participants:	EPA Participants:
Lothar Rech Hannah Schlueter Domenic Rist Leonard Kata Nick Tamborra Jenny Sigelko Juergen Peter (telephone)	Dave Good Jim Snyder Chris Nevers Rob French Will Ott David Wright

Agenda Item	Topic	Discussion / Open Topics	Action
		[redacted] to re	VW action

Ex. 4 - CBI

06/20/2017

2017-FFP_006087

EPA confirmation requested	EPA clarification requested	VW action

Ex. 4 - CBI

EPA action
VW action
VW action
EPA confirmation requested
3
2
3

Ex. 4 - CBI

EPA approved		VW action EPA clarification requested for acronym.	EPA action
	4		5

Ex. 4 - CBI

EPA approved
EPA feedback requested
Ex. 4 - CBI
6
7
8
9

Derived 5-cycle MPG Calculations For Electric Vehicles

Please Enter:

Model Year: 2014

Manufacturer Name: xxxxxxx

Model Name yyyyyyyy

Test Date: xx/yy/2013

Values in Yellow fill are used on FE Labels (window stickers)

I. Calculate Electric vehicle FE Label city, Hwy, Combined FE values using the 2008 (derived 5-cycle) method and the 30% cap method:

Enter unadjusted unrounded kW-hr/100mi Values (in red text blocks) as determined from SAE J1634:

		City (round mpg to 0.1mpg)	Highway (round mpg to 0.1mpg)	Combined Calculated unadjusted combined	Units
Elect veh FE	unrounded kW-hr/100 mi	25.3900	29.3125	27.1551	kW-hr/100 mi
Elect veh FE	converted to mpg	**132.7**	**115.0**	124.1044	mpg

2008 FE Label method (Derived 5-cycle)

	Derived 5-cycle City	Derived 5-cycle Hwy	Adjusted Combined	Units
Calculate derived 5-cycle mpg:	**82.3**	**76.4**	**79.5**	mpg
convert back to kW-hr/100 mi:	**41.0**	**44.1**	**42.4**	**kW-hr/100 mi Derived 5-cycle**
Percent adjustment mpg:	**38.0%**	**33.6%**	**35.9%**	percent
MPG w/ 30% Cap	92.9	80.5	86.8731	MPGe with 30 % Cap
convert back to kW-hr/100 mi:	36.2849	41.8696	38.7980	kW-hr/100 mi w/30 % Cap
			38.8	
2014 Label Values:				
Rounded MPG w/30% cap:	93	80	87	
Rounded kW=hr/100 mi:	36	42	39	

II. Calculate Electric vehicle driving ranges using the unadjusted SAE J1634 method and the 2008 (derived 5-cycle) method:

Enter unadjusted City & Hwy Range Values in miles (in red text blocks) as determined from SAE J1634:

	City Range	Hwy Range	Combined Range	Rounded Range	Units	Method:
Calculate unadjusted driving range:	111.293	89.42	101.4502	101	miles	Unadjusted (SAE J1634)
Calculate adjusted driving range (2008 method, No Cap):	69.0	59.4	64.9879	65	miles	2008 (derived 5-cycle, mpg-based, No Cap)
Calculate adjusted driving range (2008 method, 30% Cap):	77.9	62.6	71.0151	71	miles	2008 (derived 5-cycle, mpg-based, 30% Cap)

III. Calculate Electric vehicle annual fuel cost and 5-year savings, per 40 CFR 600.311-12(e)

2008 MPG Factors:

ref. 40 CFR 600.210-08

City Intercept:	0.00326
City Slope:	1.1805
Hwy Intercept:	0.00138
Hwy Slope:	1.3466

Petroleum Equivalency Factor for electricity; ref 10 CFR 474.3

33,705 watt-hr/gallon w/o 6.667 CAFE incentive no fuel fired accessories

Enter Average 2014 5-year Fuel Cost: $11,500

Enter U.S. electricity costs: $0.12 per kw-hr (from CD-12-18 for 2014)

Calculate unrounded adjusted combined miles/kw-hr: 2.57745 mi/kw-hr

Annual Miles	Cost	Units	Unrounded Annual Fuel Cost*	Method	2014 Label Rounded Annual Fuel Cost	2014 Label 5-year Amount You Save:
15,000	$0.12	per kw-hr	$763.20	2008 (derived 5-cycle, mpg-based, No Cap)	$750.00	$7,750
15,000	$0.12	per kw-hr	$698.36	2008 (derived 5-cycle, mpg-based, 30% Cap)	$700.00	$8,000

*Note: Annual fuel costs should be ASTM rounded to the nearest $50.

To: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
Cc: Nevers, Chris[nevers.chris@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]; French, Roberts[french.roberts@epa.gov]
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Ex. 4 - CBI

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Sent: Fri 2/8/2013 10:00:15 PM
Subject: re: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2013 FEGuide-new labels since 1-3-2013-all rel dates-no-sales-2-5-2013.xlsx

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re: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

Attached are the data in Verify as of February 5, 2013 (for new model year 2013 FE labels since January 3, 2012, only). Labels with pea green fill in the first few columns were not sent to DOE on February 5, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

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Please make any needed corrections when you get a chance.

Thanks

EPA comn	VERIFY cc	Model Yr (Mfr Name	Division (t	Carline	Verify Mfr	Index (Mo	Eng Displ	# Cyl
		2013 Lamborghi	amborghiA	ventador R	X	93	6.5	12
Diesel; HigY		2013 Volkswage	Volkswage	BEETLE C	VWX	135	2.0	4

Trans as f	City FE (G	Hwy FE (C	Comb FE	Low'd City	Low'd HW	Low'd Cor	City Unad	Hwy Unad	Comb Una
Auto(AM-S7)	10	16	12				11.5	21.2	14.4817
Auto(AM-S	28	36	31		36		36.4000	51.9000	42.0514

Please review above values and advise/verify as needed.

City Unrd	Hwy Unrd	Comb Unr	Guzzler?	Air Aspir I	Air Aspira	Trans	Trans Des	Trans, Otl	# Gears
9.7957	16.2453	11.9264	G	NA	Naturally A	spirated	Automated Manual- Selectable	7	(e.g. Au
28.0188	36.6005	31.3238		TC	Turbochar	AMS	Automated		6

Lockup T	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
Y	Automated Ma	Manual with A	paddles)	All Wheel D	DVWXV06.5L83	10		GPR	Gasoline (Premium
Y	Automated Ma	Manual with A	paddles)	2-Wheel D	DVWXV02.0U5N	5		DU	Diesel, ultr

Fuel Unit	Fuel Unit	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
MPG	Miles per gallon	Not exempt							
MPG	miles per gal	Not exemp		81		7			

Annual Fu	EPA Calcı	Comment	City2 FE (I	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
4750	4750	adjusted release date, lock up to YES., CO2 corrections Aug 14th, S/S set to yes							
1850	1850	corrected CO2 values, unadj and adj combined							

Hwy2 Unit	Comb2 Unit	Hwy2 Unit	Comb2 Unit	Range2 - Alternative Fuel	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit

Fuel2 AltnCity CO2	Hwy CO2	Comb CO2	Fuel2 EPA	Descripto	Intake Val	Exhaust V	Carline Cl	Carline Cl
					2	21		Two Seaters
					2	23		Subcompa

Car/Truck	Calc Appr	Sales	Release D	EPA FE Label	Dataset ID	Unique La	Label Rec	Relabel	Relabel D
car	Vehicle Specific 5-cycle label	1/14/2013	12234	[redacted]	N	N			
car	Derived 5-cycle label	1/10/2013	13050	[redacted]	N	N			

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N		Y	ELECTRONI	CALLY CON	TROLLED	HYDRAULI	C VALVE	SYSTEM W	ITH ELECTRONIC	EXHAUST VALVE
N	N		N		N		N				

evice Desc	Energy St	# Batterie	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
DNCONT									CONTINUOUSLY VVT	

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C#	Drive M(	Motor Ger

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				MFI	Multipoint/sequential	N	Fuel injection	N	5W30 VW 50400 /
				CRDI	Common FN			N	5W40

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
Y	Yes	Auto(AM-S7)	Auto(AM-S7)						
N	No	Auto(AM-S	Auto(AM-S						

[illegible]	[illegible]	EPA Calculated Gas G	[illegible]	[illegible]	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
14.5			1	1	DNLXV06.5L83	5		
42.3			8	7	DVWXV02	5		

#3 Smog R #3 Mfr Sm #3 EPA Sm SmartWay #4 Smog R #4 Mfr Sm

| [illegible] | [illegible] | [illegible] |

[illegible]	[illegible]	[illegible] Combined CO2 value (as shown on Label)			
[illegible]	[illegible]	[illegible]	[illegible]	240V Char	120V Char PHEV Tota
771	418	612.2	902	547	742.2
279.0	196.0	241.6	362.5	277.9	324.5

| [illegible] | [illegible] | [illegible] |

[redacted]EPA_UNR[EPA_UNR[EPA_UNR[EPA_ADJ_[EPA_PHEVLabel SubrGHG 1-10 rating on Ethanol (EPA Deter

Mr. Richard E Thomas Jr.

Mr Richard E Thomas Jr

mined)

To: richard.thomas@vw.com[]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Fri 2/8/2013 10:00:15 PM
Subject: re: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2013 FEGuide-new labels since 1-3-2013-all rel dates-no-sales-2-5-2013.xlsx

Richard,

re: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

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Y	Automated Ma	Manual with A	paddles)	2-Wheel D	DVWXV02.0U5N	5		DU	Diesel, ultr

Pollutant	Fuel	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
VOC	Unleaded required	Grams per gallon	Not exempt						
MPG	(15 ppm maximum)	miles per gal	Not exemp	81	7				

Annual Fu	EPA Calcı	Comment	City2 FE (I	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
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Hwy2 Unit	Comb2 Unit	Hwy2 Unit	Comb2 Unit	Range2 -	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit

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Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N		Y	ELECTRONI	CALLY CON	TROLLED	HYDRAULI	C VARIABL	E VALVE T
N	N		N		N		N		

Device Desc	Energy St	# Batteries	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
DI_TDI	ON								CONTINUOUSLY VVT	

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C#	Drive M(	Motor Ger

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				MFI	Multipoint/sequential	N	Fuel injection	N	5W30 VW 50400 /
				CRDI	Common FN			N	5W40

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
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N	No	Auto(AM-S	Auto(AM-S						

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| | | |

| [illegible] | [illegible] | [illegible] |

				240V Char	120V Char PHEV Tota
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279.0	196.0	241.6	362.5	277.9	324.5

[illegible]	[illegible]	[illegible]	Comb Vol Higher	Final Labe	EPA_FUEL	EPA_GHG	EPA_AMT
	N		8.3	8.3			
	N		3.2	3.2			

[redacted]EPA_UNR[EPA_UNR[EPA_UNR[EPA_ADJ_[EPA_PHEVLabel SubrGHG 1-10 rating on Ethanol (EPA Deter

Mr. Richard E Thomas Jr.

Mr Richard E Thomas Jr

mined)

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Fri 2/8/2013 10:00:15 PM
Subject: re: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov
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Thanks

To: Sebastian.Berenz@vw.com;Tobias.Glas@vw.com[]; obias.Glas@vw.com[]
Cc: []
Bcc: []
From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US
Sent: Mon 2/11/2013 3:36:35 PM
Subject: Test data for in-use vehicle S108-0014
S108RXX-0014.pdf

Hi.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

Cert

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0095-002 Vehicle ID: S108RXX-0014

Test Information

Test Date: 2/6/2013
Key Start / Hot Soak: 06:50:37 / 09:54
Fuel Container ID: F00022
Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur
Test Procedure: 02 CVS 75-Later (w/o Can Load) (ftp3bag)
Calculation Method: Diesel
Pretest Remarks:

MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980005
Beginning Odometer: 024109.0 MI
Drive Schedule: ftp3bag
Soak Period: 18.3 hours

Bag Data	THC / IntTHC	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	16.395 / 17.964	25.799	0.587	0.758	9.163	
Ambient	1.940	0.284	0.013	0.044	1.928	
Net Concentration	14.566 / 16.134	25.531	0.575	0.716	7.344	8.158
Remarks:						
Phase 2						
Sample	3.626 / 3.530	0.355	0.018	0.479	3.198	
Ambient	2.198	0.084	0.014	0.044	1.983	
Net Concentration	1.506 / 1.411	0.274	0.004	0.436	1.286	0.014
Remarks:						
Phase 3						
Sample	14.922 / 14.774	0.588	0.056	0.710	13.340	
Ambient	1.996	0.114	0.021	0.045	1.949	
Net Concentration	13.031 / 12.884	0.481	0.036	0.667	11.494	0.401
Remarks:						
Phase 4						
Sample						
Ambient						
Net Concentration						

Remarks: This test has particulate results.

Results	THC / IntTHC	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.212	0.676	0.023	298.3	0.111	0.107	34.106
Phase 2	- / 0.030	0.012	0.000	289.4	0.031	0.000	35.340
Phase 3	- / 0.168	0.013	0.001	276.2	0.174	0.005	36.969
Weighted	0.10547	0.14977	0.00521	287.627	0.08699	0.02380	

Fuel Economy	Diesel MPG
Phase 1	33.92
Phase 2	35.15
Phase 3	36.76
Weighted	35.26

Dyno Settings
Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 15.04
EPA Set Co B: 0.0262
EPA Set Co C: 0.01927
Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0095-002 Vehicle ID: S108RXX-0014

Results	THC / IntTHC (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	- / 0.753	2.405	0.080	1060.5	0.396	0.381	1.086
Phase 2	- / 0.113	0.044	0.001	1104.5	0.119	0.001	
Phase 3	- / 0.600	0.045	0.005	984.9	0.619	0.019	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.21	29.21	29.23	
Avg Cell Temp (degF)	74.07	74.08	74.12	
Dew Point (degF)	48.63	48.75	48.69	
Specific Humidity (grains/lbm)	52.11	52.33	52.18	
NOx Corr Factor	0.9029	0.9037	0.9031	
CO2 Dilution Factor	17.587	27.976	18.845	
CFV Vmix (scf @68F)	2842.39	4861.39	2834.62	
Total Vmix (scf@68F)	2857.27	4886.92	2849.52	
CVS Flow Rate Avg (scfm)	336.24	335.31	335.39	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.20	869.90	507.10	
Distance (miles)	3.555	3.816	3.566	
Bag Analysis Time (secs)	1003.5	248.6	135.7	

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2013-0095-002

Vehicle ID: S108RXX-0014

Test Information

Test Date: 2/6/2013
Key Start: 06:50:37 / 09:54
Fuel Container ID: F00022
Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur
Test Procedure: 02 CVS 75-Later (w/o Can Load) (ftp3bag)
Calculation Method: Diesel
Pretest Remarks:

MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980005
Beginning Odometer: 024109.0 MI
Drive Schedule: ftp3bag
Soak Period: 18.3 hours

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	447729	145.0779	145.1103	0.03240	12.447	3.501	
	C	447732	144.4888	144.4947	0.00586	2.250	0.633	
Remarks:						Exclude A		
Phase 2								
	B	447730	146.8385	146.8423	0.00379	1.451	0.380	
	C	447733	146.4284	146.4321	0.00368	1.411	0.370	
Remarks:								
Phase 3								
	B	447731	145.7816	145.7940	0.01239	4.741	1.330	
	C	447734	139.8503	139.8559	0.00560	2.140	0.600	
Remarks:						Exclude A		
Phase 4								
Remarks:	This test has particulate results.							

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.01913	7.348	2.067
Phase 2	0.00374	1.431	0.375
Phase 3	0.00899	3.441	0.965

All filter weights are corrected for buoyancy.

Weighted All Filters: 0.88830

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL
0.01	1	145.16103	145.16190	0.00087	PASS
	2	144.62484	144.62640	0.00156	PASS

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 15.04
EPA Set Co B: 0.0262
EPA Set Co C: 0.01927

NVFEL Laboratory Test Data

Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0095-002 Vehicle ID: S108RXX-0014

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	2/5/13 7:20	1.0011085	022298	71.8	49.2	28.94	NORM @ 02/04/13 07:09:44
Post-test	2/6/13 12:31	1.0011214	022298	71.8	49.3	29.28	NORM @ 02/04/13 07:09:44

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.21	29.21	29.23	
Avg Cell Temp (degF)	74.07	74.08	74.12	
Dew Point (degF)	48.63	48.75	48.69	
Specific Humidity (grains/lbm)	52.11	52.33	52.18	
NOx Corr Factor	0.9029	0.9037	0.9031	
Dilution Factor	17.59	27.98	18.84	
CFV Vmix (scf @68F)	2842.39	4861.39	2834.62	
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	7.438	12.769	7.444	
Sample Volume C (scf @68F)	7.444	12.762	7.459	
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	4.961	8.510	4.968	
Total Vmix (scf @68F)	2857.27	4886.92	2849.52	
Phase Time (sec)	507.20	869.90	507.10	
Distance (miles)	3.555	3.816	3.566	
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.6	44.6	44.6	
PSU Dil Air B (degC)	41.2	39.3	39.6	
PSU Dil Air C (degC)	41.5	41.7	41.5	
PSU Filter A (degC)	48.0	47.9	47.9	
PSU Filter B (degC)	45.3	45.6	45.8	
PSU Filter C (degC)	45.7	46.7	46.8	
PSU Dil Flow A (lpm)	0.0	0.0	0.0	
PSU Dil Flow B (lpm)	30.0	29.9	29.9	
PSU Dil Flow C (lpm)	29.9	29.9	29.9	
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

Cert

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0095-003 Vehicle ID: S108RXX-0014

Test Information

Test Date:	2/6/2013	MFR Name	VOLKSWAGEN
Key Start:	08:21:45	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	3	Shift Schedule:	A09980011
Calculation Method:	Diesel	Beginning Odometer:	000000.0 MI
Pretest Remarks:		Drive Schedule:	hwfet_hwfet

Bag Data	THC / IntTHC	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	8.651 / 8.885	13.422	0.030	0.951	7.325	
Ambient	2.374	0.210	0.030	0.046	2.047	
Net Concentration	6.445 / 6.679	13.227	0.002	0.908	5.424	0.788

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks: This test has particulate results.

Results	THC / IntTHC	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.045	0.181	0.000	195.6	0.043	0.005	52.200

Fuel Economy	Diesel MPG
Phase 1	51.91

Dyno Settings

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 15.04
EPA Set Co B: 0.0262
EPA Set Co C: 0.01927

Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0095-003 Vehicle ID: S108RXX-0014

Results	THC / IntTHC (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	- / 0.464	1.854	0.000	2000.6	0.436	0.055	1.086

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.27			
Avg Cell Temp (degF)	74.15			
Dew Point (degF)	48.63			
Specific Humidity (grains/lbm)	51.99			
NOx Corr Factor	0.9024			
CO2 Dilution Factor	14.064			
CFV Vmix (scf @68F)	4228.91			
Total Vmix (scf@68F)	4251.34			
CVS Flow Rate Avg (scfm)	331.64			

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.11
Distance (miles)	10.228
Bag Analysis Time (secs)	

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results

Test Number: 2013-0095-003

Vehicle ID: S108RXX-0014

Test Information

Test Date: 2/6/2013
Key Start: 08:21:45
Fuel Container ID: F00022
Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur
Test Procedure: 3
Calculation Method: Diesel
Pretest Remarks:

MFR Name VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980011
Beginning Odometer: 000000.0 MI
Drive Schedule: hwfet_hwfet

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	446523	144.2777	144.2825	0.00476	1.800	0.176	
	C	446524	146.4705	146.4739	0.00339	1.289	0.126	

Remarks: Exclude A

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.00408	1.545	0.151

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg: 0.01

No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL
1	145.16187	145.16255	0.00068	PASS
2	144.62528	144.62605	0.00077	PASS

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 15.04
EPA Set Co B: 0.0262
EPA Set Co C: 0.01927

Emissions Bencl Mexa 7200dle

NVFEL Laboratory Test Data

Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0095-003 Vehicle ID: S108RXX-0014

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	2/5/13 12:55	1.0011060	022298	71.9	49.3	28.89	NORM @ 02/04/13 07:09:44
Post-test	2/6/13 13:40	1.0011217	022298	71.7	49.1	29.28	NORM @ 02/04/13 07:09:44

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.27			
Avg Cell Temp (degF)	74.15			
Dew Point (degF)	48.63			
Specific Humidity (grains/lbm)	51.99			
NOx Corr Factor	0.9024			
Dilution Factor	14.06			
CFV Vmix (scf @68F)	4228.91			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	11.243			
Sample Volume C (scf @68F)	11.194			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	7.479			
Total Vmix (scf @68F)	4251.34			
Phase Time (sec)	765.11			
Distance (miles)	10.228			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.6			
PSU Dil Air B (degC)	38.8			
PSU Dil Air C (degC)	41.1			
PSU Filter A (degC)	47.8			
PSU Filter B (degC)	47.3			
PSU Filter C (degC)	46.9			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	29.9			
PSU Dil Flow C (lpm)	29.9			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

Cert

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0095-004 Vehicle ID: S108RXX-0014

Test Information

Test Date:	2/6/2013	MFR Name	VOLKSWAGEN
Key Start:	09:24:56	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	90 US06 (us06warmup_us06)	Shift Schedule:	A09980041
Calculation Method:	Diesel	Beginning Odometer:	024141.0 MI
Pretest Remarks:		Drive Schedule:	us06_us06

Bag Data	THC / IntTHC	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	18.203 / 18.243	0.967	2.435	1.033	16.604	
Ambient	2.180	0.148	0.029	0.045	2.019	
Net Concentration	16.191 / 16.232	0.831	2.408	0.991	14.741	0.224

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks: This test has particulate results.

Results	THC / IntTHC	CO	NOx	CO2	CH4	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.161	0.017	0.071	311.5	0.169	0.002	32.789

Fuel Economy	Diesel MPG
Phase 1	32.61

Dyno Settings

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 15.04
EPA Set Co B: 0.0262
EPA Set Co C: 0.01927

Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results

Test Number: 2013-0095-004 Vehicle ID: S108RXX-0014

Results

	THC / IntTHC (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	- / 1.283	0.133	0.570	2486.6	1.348	0.018	1.086

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.28			
Avg Cell Temp (degF)	73.94			
Dew Point (degF)	48.71			
Specific Humidity (grains/lbm)	52.12			
NOx Corr Factor	0.9029			
CO2 Dilution Factor	12.948			
CFV Vmix (scf @68F)	4823.60			
Total Vmix (scf@68F)	4841.09			
CVS Flow Rate Avg (scfm)	480.60			

Fan Placement: USO6 Only - One Large Fan - Up - Front

Phase Time (secs)	602.20
Distance (miles)	7.982
Bag Analysis Time (secs)	135.8

NVFEL Laboratory Test Data

Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0095-004

Vehicle ID: S108RXX-0014

Test Information

Test Date: 2/6/2013
Key Start: 09:24:56
Fuel Container ID: F00022
Fuel Type: 19 Cert Diesel 7-15 ppm Sulfur
Test Procedure: 90 US06 (us06warmup_us06)
Calculation Method: Diesel
Pretest Remarks:

MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980041
Beginning Odometer: 024141.0 MI
Drive Schedule: us06_us06

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	447735	139.9635	139.9671	0.00367	2.029	0.254	
	C	447736	143.4840	143.4867	0.00268	1.485	0.186	

Remarks: Exclude A

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.00317	1.757	0.220

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL
0.01	1	145.16280	145.16177	-0.00103	PASS
	2	144.62660	144.62587	-0.00073	PASS

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 15.04
EPA Set Co B: 0.0262
EPA Set Co C: 0.01927

NVFEL Laboratory Test Data

Final Laboratory Test Results

PARTICULATE

Test Number: 2013-0095-004 Vehicle ID: S108RXX-0014

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	2/6/13 8:25	1.0011207	022298	71.6	49.2	29.25	NORM @ 02/04/13 07:09:44
Post-test	2/6/13 14:05	1.0011219	022298	71.6	49.2	29.28	NORM @ 02/04/13 07:09:44

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.28			
Avg Cell Temp (degF)	73.94			
Dew Point (degF)	48.71			
Specific Humidity (grains/lbm)	52.12			
NOx Corr Factor	0.9029			
Dilution Factor	12.95			
CFV Vmix (scf @68F)	4823.60			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	8.761			
Sample Volume C (scf @68F)	8.724			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	5.828			
Total Vmix (scf @68F)	4841.09			
Phase Time (sec)	602.20			
Distance (miles)	7.982			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.6			
PSU Dil Air B (degC)	41.0			
PSU Dil Air C (degC)	41.2			
PSU Filter A (degC)	48.0			
PSU Filter B (degC)	46.5			
PSU Filter C (degC)	46.5			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	29.6			
PSU Dil Flow C (lpm)	29.6			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

To: Sebastian.Berenz@vw.com[Sebastian.Berenz@vw.com];
Tobias.Glas@vw.com[Tobias.Glas@vw.com]
From: Sohacki, Lynn
Sent: Mon 2/11/2013 3:36:35 PM
Subject: Test data for in-use vehicle S108-0014
S108RXX-0014.pdf

Hi.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA;"Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]; Berenz, Sebastian (EEO)" [Sebastian.Berenz@vw.com]
From: "Glas, Tobias"
Sent: Mon 2/11/2013 6:04:10 PM
Subject: RE: Test data for in-use vehicle S108-0014
Tobias.Glas@vw.com

Hi Lynn !

Thanks for the data, so far everything looks good.

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, February 11, 2013 10:37 AM
To: Berenz, Sebastian (EEO); Glas, Tobias
Subject: Test data for in-use vehicle S108-0014

VW FOIA, EPA 06/20/2017 2017-FFP_006157

Hi.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: S108RXX-0014.pdf)

To: Sohacki, Lynn[sohacki.lynn@epa.gov]; Berenz, Sebastian (EEO)[Sebastian.Berenz@vw.com]
From: Glas, Tobias
Sent: Mon 2/11/2013 6:04:10 PM
Subject: RE: Test data for in-use vehicle S108-0014

Hi Lynn !

Thanks for the data, so far everything looks good.

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Monday, February 11, 2013 10:37 AM
To: Berenz, Sebastian (EEO); Glas, Tobias
Subject: Test data for in-use vehicle S108-0014

Hi.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki
Environmental Protection Agency
(734)214-4851
(734)214-4869 fax

(See attached file: S108RXX-0014.pdf)

To: Verify@EPA[]
Cc: Jim Snyder/AA/USEPA/US@EPA[]
From: "Rodgers, William (EEO)"
Sent: Mon 2/11/2013 8:09:15 PM
Subject: VW Group - New Approved User
Tobias Glas-esa.pdf
user-info-20130211.xls

Hello,

Please see the attached forms to add a new approved user, Tobias Glas, to the Verify system and manufacturer codes VWX, ADX and BEX. We have also include a complete User information spreadsheet for the entire Volkswagen Group. Please notify me when this new user is set up and able to access the system.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

VW FOIA, EPA 06/20/2017 2017-FFP_006161

VOLKSWAGEN

GROUP OF AMERICA

Verify Team
OAR/OTAQ/CISD
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105

Leonard W. Kata Name
Manager Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

February 11, 2013 Date

Subject: CROMERR Documents

Dear Verify Team,

The enclosed documents are the completed CROMERR signature forms for the Verify System for the entire Volkswagen Group of America including Audi, Bentley, Bugatti, Lamborghini and Volkswagen.

Tobias Glas is a new addition to our list of approved users for Audi, Bentley and Volkswagen.

If you have any questions with regard to this information please contact our office in Auburn Hills at (248) 754-4219 or (248) 754-4204.

Sincerely,

Leonard Kata
Volkswagen Group of America, Inc.

Enclosures

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

3. I agree to maintain an electronic mail account; if any e-mail sent to me by U.S. EPA is returned as undeliverable, I will explain this occurrence when requested by U.S. EPA. I understand that I will be informed through this e-mail address whenever my user identification or password has been modified.

4. I understand that CDX reports the last date my user identification and password were used immediately after successfully logging into CDX.

5. I understand that whenever I electronically sign and submit an electronic document to the CDX, I will receive an e-mail message at my registered e-mail address as an "out-of-band" receipt. This e-mail message will inform me that a submission has been made to CDX from my user account and will contain instructions to view information regarding the submission in my CDX Inbox.

6. I understand that I will receive an e-mail message in my CDX inbox with a link to my encrypted, electronically signed copy of my submission as an "in-band" receipt.

7. I agree to review the acknowledgements and copies of documents that I electronically sign and submit to the US EPA's CDX.

8. I agree that if I receive an in-band or out-of-band receipt for a submission that I do not believe that I submitted, I will notify the CDX Help Desk as soon as possible, but no later than 24 hours, after receipt.

9. I agree to contact the CDX Help Desk if I do not receive a receipt either by in-band or out-of-band message within 5 business days for any electronically signed submission using my credentials.

10. I agree to report, within 24 hours of discovery, any evidence of a discrepancy between an electronic document I have signed and submitted and what the CDX has received from me by contacting the CDX Help Desk.

11. I agree to notify U.S. EPA if I cease to represent the regulated entity specified below, by sending an e-mail message to verify@epa.gov with "Verify Account Termination" in the subject line.

12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006163

Signature: Ex. 6

Printed Name: Tobias Glas

Title: EEO - In Use Emissions Compliance Specialist

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: tobias.glas@vw.com

Telephone Number: 248-754-4211 Date: Feb. 11, 2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006164

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

3. I agree to maintain an electronic mail account; if any e-mail sent to me by U.S. EPA is returned as undeliverable, I will explain this occurrence when requested by U.S. EPA. I understand that I will be informed through this e-mail address whenever my user identification or password has been modified.

4. I understand that CDX reports the last date my user identification and password were used immediately after successfully logging into CDX.

5. I understand that whenever I electronically sign and submit an electronic document to the CDX, I will receive an e-mail message at my registered e-mail address as an "out-of-band" receipt. This e-mail message will inform me that a submission has been made to CDX from my user account and will contain instructions to view information regarding the submission in my CDX Inbox.

6. I understand that I will receive an e-mail message in my CDX inbox with a link to my encrypted, electronically signed copy of my submission as an "in-band" receipt.

7. I agree to review the acknowledgements and copies of documents that I electronically sign and submit to the US EPA's CDX.

8. I agree that if I receive an in-band or out-of-band receipt for a submission that I do not believe that I submitted, I will notify the CDX Help Desk as soon as possible, but no later than 24 hours, after receipt.

9. I agree to contact the CDX Help Desk if I do not receive a receipt either by in-band or out-of-band message within 5 business days for any electronically signed submission using my credentials.

10. I agree to report, within 24 hours of discovery, any evidence of a discrepancy between an electronic document I have signed and submitted and what the CDX has received from me by contacting the CDX Help Desk.

11. I agree to notify U.S. EPA if I cease to represent the regulated entity specified below, by sending an e-mail message to verify@epa.gov with "Verify Account Termination" in the subject line.

12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006165

Signature: Ex. 6

Printed Name: Tobias Glas

Title: EEO - In Use Emissions Compliance Specialist

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: tobias.glas@vw.com

Telephone Number: 248-754-4211 Date: Feb. 11, 2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006166

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

3. I agree to maintain an electronic mail account; if any e-mail sent to me by U.S. EPA is returned as undeliverable, I will explain this occurrence when requested by U.S. EPA. I understand that I will be informed through this e-mail address whenever my user identification or password has been modified.

4. I understand that CDX reports the last date my user identification and password were used immediately after successfully logging into CDX.

5. I understand that whenever I electronically sign and submit an electronic document to the CDX, I will receive an e-mail message at my registered e-mail address as an "out-of-band" receipt. This e-mail message will inform me that a submission has been made to CDX from my user account and will contain instructions to view information regarding the submission in my CDX Inbox.

6. I understand that I will receive an e-mail message in my CDX inbox with a link to my encrypted, electronically signed copy of my submission as an "in-band" receipt.

7. I agree to review the acknowledgements and copies of documents that I electronically sign and submit to the US EPA's CDX.

8. I agree that if I receive an in-band or out-of-band receipt for a submission that I do not believe that I submitted, I will notify the CDX Help Desk as soon as possible, but no later than 24 hours, after receipt.

9. I agree to contact the CDX Help Desk if I do not receive a receipt either by in-band or out-of-band message within 5 business days for any electronically signed submission using my credentials.

10. I agree to report, within 24 hours of discovery, any evidence of a discrepancy between an electronic document I have signed and submitted and what the CDX has received from me by contacting the CDX Help Desk.

11. I agree to notify U.S. EPA if I cease to represent the regulated entity specified below, by sending an e-mail message to verify@epa.gov with "Verify Account Termination" in the subject line.

12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006167

Signature: Ex. 6

Printed Name: Tobias Glas

Title: EEO - In Use Emissions Compliance Specialist

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: tobias.glas@vw.com

Telephone Number: 248-754-4211 Date: Feb. 11, 2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006168

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): VWX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Sebastian
Last Name	Berenz
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	Sebastian.Berenz@vw.com
Phone Number	248-754-4211

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 12

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): ADX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Sebastian
Last Name	Berenz
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	Sebastian.Berenz@vw.com
Phone Number	248-754-4211

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 8

the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 12

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): BEX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 7

the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): NLX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Robert
Last Name	Hart
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	robert.hart@vw.com
Phone Number	248-754-4224

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

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If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): BGT

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Robert
Last Name	Hart
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	robert.hart@vw.com
Phone Number	248-754-4224

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 7

the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

To: "Rodgers, William (EEO)" [William.Rodgers@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;Verify@EPA[]; erify@EPA[]
From: CN=Pete Petersen/OU=AA/O=USEPA/C=US
Sent: Tue 2/12/2013 1:40:23 PM
Subject: Re: VW Group - New Approved User
Tobias Glas-esa.pdf
user-info-20130211.xls

I assume you have mailed these forms to the Verify Team address? I am not allowed to accept electronic copies.

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Verify@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 02/11/2013 03:09 PM
Subject: VW Group - New Approved User

Hello,
Please see the attached forms to add a new approved user, Tobias Glas, to the Verify system and manufacturer codes VWX, ADX and BEX. We have also include a complete User information spreadsheet for the entire Volkswagen Group. Please notify me when this new user is set up and able to access the system.

Regards,

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]
Cc: "Giles, Michael (EEO)" [michael.giles@vw.com]; Kata, Leonard (EEO)" [Leonard.Kata@vw.com]; Thomas, Richard (EEO)" [Richard.Thomas@vw.com]; Glas, Tobias" [Tobias.Glas@vw.com]
From: "Rodgers, William (EEO)"
Sent: Tue 2/12/2013 6:06:41 PM
Subject: VW Group Tests and Decision Information

Hello Jim,

As a heads up to what's coming your way, the following support an upcoming running change which adds a 208hp next-generation 2.0l TFSI engine (up from 200hp) to the existing Bin 3 test group DVWXV02.03PA.

· Today I submitted two sets of Tests and Decision Information for Beetle Convertible and Beetle Coupe models as FEDV's in the test group.

· Tomorrow I hope to submit the same for Jetta GLI, also as an FEDV for the test group.

Later in the week, I expect to establish a new Federal-only Bin 5 test group and submit tests for the same basic engine and models. The Beetle Convertible automatic will be the EDV for this new test group.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

VW FOIA, EPA 06/20/2017 2017-FFP_006193

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]
From: Rodgers, William (EEO)
Sent: Tue 2/12/2013 6:06:41 PM
Subject: VW Group Tests and Decision Information

Hello Jim,

As a heads up to what's coming your way, the following support an upcoming running change which adds a Ex. 4 - CBI to the existing Bin 3 test group Ex. 4 - CBI

- Today I submitted two sets of Tests and Decision Information for Beetle Convertible and Beetle Coupe models as FEDV's in the test group.

- Tomorrow I hope to submit the same for Jetta GLI, also as an FEDV for the test group.

Later in the week, I expect to establish a new Federal-only Bin 5 test group and submit tests for the same basic engine and models. The Beetle Convertible automatic will be the EDV for this new test group.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: "Thomas, Richard (EEO)" [Richard.Thomas@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
From: CN=David Good/OU=AA/O=USEPA/C=US
Sent: Tue 2/12/2013 8:12:35 PM
Subject: RE: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov
www.fueleconomy.gov

Richard,

The Adventador Roadster (Index 93) was sent to DOE for posting on the web. (It was error free with a release date of 1/14/2013.) Should it have been?

Dave

From: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
To: David Good/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 02/12/2013 08:18 AM
Subject: RE: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

Hi Dave;

I took care of the error for the 2013 Beetle Convertible TDI index 135, a couple days ago.

There was one other 2013 Lamborghini Aventador Roadster on the spreadsheet you sent, but there was no green shading in the first column and it had a release date of January 14, 2013. Was that sent to DOE? Was there a problem with Lamborghini index 93?

Thanks,
Richard

From: Good.David@epamail.epa.gov [mailto:Good.David@epamail.epa.gov]
Sent: Friday, February 08, 2013 5:00 PM
To: Thomas, Richard (EEO)
Cc: Snyder.Jim@epamail.epa.gov
Subject: re: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

Richard,

re: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

Attached are the data in Verify as of February 5, 2013 (for new model year 2013 FE labels since January 3, 2012, only). Labels with pea green fill in the first few columns were not sent to DOE on February 5, 2013

for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2013 FE Label data will be on March 1, 2013 or so (on a monthly schedule where I run the query on the 1st of the month). If you need an important 2013 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

(See attached file: VW_Group_2013 FEGuide-new labels since 1-3-2013-all rel dates-no-sales-2-5-2013.xlsx)

VW FOIA, EPA 06/20/2017 2017-FFP_006196

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Tue 2/12/2013 8:12:35 PM
Subject: RE: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

Richard,

The Adventador Roadster (Index 93) was sent to DOE for posting on the web. (It was error free with a release date of 1/14/2013.) Should it have been?

Dave

From: "Thomas, Richard (EEO)" <Richard.Thomas@vw.com>
To: David Good/AA/USEPA/US@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 02/12/2013 08:18 AM
Subject: RE: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

Hi Dave;

I took care of the error for the 2013 Beetle Convertible TDI index 135, a couple days ago.

There was one other 2013 Lamborghini Aventador Roadster on the spreadsheet you sent, but there was no green shading in the first column and it had a release date of January 14, 2013. Was that sent to DOE? Was there a problem with Lamborghini index 93?

Thanks,
Richard

From: Good.David@epamail.epa.gov [mailto:Good.David@epamail.epa.gov]
Sent: Friday, February 08, 2013 5:00 PM
To: Thomas, Richard (EEO)
Cc: Snyder.Jim@epamail.epa.gov
Subject: re: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

Richard,

re: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

Attached are the data in Verify as of February 5, 2013 (for new model year 2013 FE labels since January 3, 2012, only). Labels with pea green fill in the first few columns were not sent to DOE on February 5, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2013 FE Label data will be on March 1, 2013 or so (on a monthly schedule where I run the query on the 1st of the month). If you need an important 2013 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

(See attached file: VW_Group_2013 FEGuide-new labels since 1-3-2013-all rel dates-no-sales-2-5-2013.xlsx)

To: "Rodgers, William" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 2/12/2013 8:51:14 PM
Subject: Re: VW Group - New Approved User

Bill, Can you mail the form to me? They are very particular about this being a real copy not a scan.

Make sure its addressed to me.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Verify
To: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
Cc: Jim Snyder/AA/USEPA/US@EPA, Verify@EPA
Date: 02/12/2013 08:40 AM
Subject: Re: VW Group - New Approved User
Sent by: Pete Petersen

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From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Verify@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 02/11/2013 03:09 PM
Subject: VW Group - New Approved User

Hello,
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Regards,

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com
[attachment "Tobias Glas-esa.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "user-info-20130211.xls" deleted by Jim Snyder/AA/USEPA/US]

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To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 2/13/2013 10:59:24 AM
Subject: RE: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

That was fine, I just didn't know why it was on the list.

From: Good.David@epamail.epa.gov [mailto:Good.David@epamail.epa.gov]
Sent: Tuesday, February 12, 2013 3:13 PM
To: Thomas, Richard (EEO)
Cc: Snyder.Jim@epamail.epa.gov
Subject: RE: 2013 FE Guide - Errors in EPA's data base as of February 5, 2013 which held up posting on www.fueleconomy.gov

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Date: 02/12/2013 08:18 AM
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Ex. 4 - CBI

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Thanks

(See attached file: VW_Group_2013 FEGuide-new labels since 1-3-2013-all rel dates-no-sales-2-5-2013.xlsx)

To: Jim Snyder/AA/USEPA/US@EPA[]
From: "Rodgers, William (EEO)"
Sent: Wed 2/13/2013 2:08:42 PM
Subject: Revised 2014 Cert Preview Attachment
MY 2014 TEST GROUPS ATTACHMENT A EEO 02062013 REVISION.xlsx

Hi Jim,

Attached is the updated chart we discussed for 2014MY.

Bill Rodgers

VWGoA EEO

(248) 754-4219

VW FOIA, EPA 06/20/2017 2017-FFP_006205

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Wed 2/13/2013 2:08:42 PM
Subject: Revised 2014 Cert Preview Attachment
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To: "Rodgers, William (EEO)" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Wed 2/13/2013 8:08:43 PM
Subject: Re: Revised 2014 Cert Preview Attachment

Thanks Bill, this is much clearer to follow than the other chart.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 02/13/2013 09:08 AM
Subject: Revised 2014 Cert Preview Attachment

Hi Jim,
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Bill Rodgers
VWGoA EEO
(248) 754-4219
[attachment "MY 2014 TEST GROUPS ATTACHMENT A EEO 02062013 REVISION.xlsx" deleted by Jim Snyder/AA/USEPA/US]

VW FOIA, EPA 06/20/2017 2017-FFP_006207

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Wed 2/13/2013 8:08:43 PM
Subject: Re: Revised 2014 Cert Preview Attachment

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Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

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[attachment "MY 2014 TEST GROUPS ATTACHMENT A EEO 02062013 REVISION.xlsx" deleted by Jim Snyder/AA/USEPA/US]

To: Jim Snyder/AA/USEPA/US@EPA[]
Cc: "Glas, Tobias" [Tobias.Glas@vw.com]
From: "Rodgers, William (EEO)"
Sent: Thur 2/14/2013 1:38:25 PM
Subject: FW: VW Group - New Approved User
Tobias.Glas@vw.com
Petersen.Pete@epamail.epa.gov
mailto:Petersen.Pete@epamail.epa.gov
Verify@epa.gov
Snyder.Jim@epamail.epa.gov
Verify@epa.gov
William.Rodgers@vw.com
william.rodgers@vw.com
image001.gif

Jim,

Perhaps we need to submit a new form for VW? or can you adjust the user name we requested so it works with the system.

Requested user name: glastvw

Proposed change: glastvolkswagen

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

From: Glas, Tobias
Sent: Thursday, February 14, 2013 7:49 AM
To: Rodgers, William (EEO); Petersen.Pete@epamail.epa.gov
Subject: RE: VW Group - New Approved User

Hello !

I tried to activate my Verify VW user yesterday and couldn't process it because my username only has 7 digits.

Please advise how to solve that issue.

Thank you very much !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Rodgers, William (EEO)
Sent: Thursday, February 14, 2013 7:31 AM
To: Glas, Tobias
Subject: FW: VW Group - New Approved User

From: Petersen.Pete@epamail.epa.gov [mailto:Petersen.Pete@epamail.epa.gov] On Behalf Of Verify@epa.gov

Sent: Tuesday, February 12, 2013 8:40 AM
To: Rodgers, William (EEO)
Cc: Snyder.Jim@epamail.epa.gov; Verify@epa.gov
Subject: Re: VW Group - New Approved User

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Requested user name: **Ex. 4 - CBI**

Proposed change: **Ex. 4 - CBI**

Regards,

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Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 2/14/2013 2:45:07 PM
Subject: Re: FW: VW Group - New Approved User
Tobias.Glas@vw.com
Petersen.Pete@epamail.epa.gov
mailto:Petersen.Pete@epamail.epa.gov
Verify@epa.gov
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Verify@epa.gov
William.Rodgers@vw.com
william.rodgers@vw.com
(embedded image)

I talked to Christi and if she said this is a Verify help desk issue. They should be able to straighten it out.

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Requested user name: Ex. 6
Proposed change: Ex. 6
Regards,

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VW FOIA, EPA 06/20/2017 2017-FFP_006216

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To: "Rodgers, William (EEO)" [William.Rodgers@vw.com]
Cc: Jim Snyder/AA/USEPA/US@EPA;"Giles, Michael (EEO)" [michael.giles@vw.com]; Giles, Michael (EEO)" [michael.giles@vw.com]
From: Ex. 6
Sent: Thur 2/14/2013 4:15:22 PM
Subject: Re: Duplicate Inbox test waiver announcements (HLP-3629)

Hello Mr. Rodgers,

Verify Help Desk Ticket HLP-3629 was opened for your inquiry.

I've unscheduled the next scheduled notification task for this transaction id. Please let me know if you receive any additional duplicate notifications.

Ex. 6

Verify Help Desk
Staffed by Computer Sciences Corporation,
Contractor to the Environmental Protection Agency

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Rodgers, William (EEO)" <William.Rodgers@vw.com> 02/14/2013 08:58 AM

To: Verify Help Desk@CSC
cc: "'Jim Snyder' (Snyder.Jim@epamail.epa.gov)'" <Snyder.Jim@epamail.epa.gov>, "Giles, Michael (EEO)" <michael.giles@vw.com>
Subject: Duplicate Inbox test waiver announcements

Hello Ex. 6
We are getting duplicate inbox entries for test waivers again.

The status of your submission is shown below:
Submission
Document Name: LightDutyDecisionInformationSubmission.xml
Transaction Id: _b6be3185-4610-4bb2-b6dc-92dd72ca8801
Date Originally Submitted: 02/12/2013

Status History

Date Status Description

Tue 02/12/2013 12:45 PM d Complete Your recent Decision Information submission has been received by the EPA and you will be notified if any additional actions on your part are required. A Submission Processing Report and any requested dataset reports can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message.

The following is a summary of the processing report:

Total Datasets Submitted: 1
Accepted Datasets: 1
Rejected Datasets: 0

Wed 02/13/2013 3:05 PM d Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer: VWX Vehicle ID: VW324 30111 Vehicle Configuration: 0

Wed 02/13/2013 4:05 PM d Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer: VWX Vehicle ID: VW324 30111 Vehicle Configuration: 0

Wed 02/13/2013 5:05 PM d Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer: VWX Vehicle ID: VW324 30111 Vehicle Configuration: 0

Wed 02/13/2013 6:05 PM d Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer: VWX Vehicle ID: VW324 30111 Vehicle Configuration: 0

Wed 02/13/2013 7:05 PM d Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer: VWX Vehicle ID: VW324 30111 Vehicle Configuration: 0

Wed 02/13/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:

VWX Vehicle ID: VW324 30111
8:05 PM d Vehicle Configuration: 0

Wed 02/13/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
9:05 PM d Vehicle Configuration: 0

Wed 02/13/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
10:05 PM d Vehicle Configuration: 0

Wed 02/13/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
11:05 PM d Vehicle Configuration: 0

Thu 02/14/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
12:05 AM d Vehicle Configuration: 0

Thu 02/14/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
1:05 AM d Vehicle Configuration: 0

Thu 02/14/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
2:05 AM d Vehicle Configuration: 0

Thu 02/14/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
3:05 AM d Vehicle Configuration: 0

Thu 02/14/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
4:05 AM d Vehicle Configuration: 0

Thu 02/14/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
5:06 AM d Vehicle Configuration: 0

Thu 02/14/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
6:06 AM d Vehicle Configuration: 0

Thu 02/14/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
7:06 AM d Vehicle Configuration: 0

Thu 02/14/2013 Complete Confirmatory Test for the following Vehicle has been Waived: Manufacturer:
VWX Vehicle ID: VW324 30111
8:06 AM d Vehicle Configuration: 0

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Ex. 4 - CBI
Sent: Thur 2/14/2013 4:15:22 PM
Subject: Re: Duplicate Inbox test waiver announcements (HLP-3629)

Hello Mr. Rodgers,

Verify Help Desk Ticket HLP-3629 was opened for your inquiry.

I've unscheduled the next scheduled notification task for this transaction id. Please let me know if you receive any additional duplicate notifications.

Ex. 4 - CBI

Verify Help Desk
Staffed by Computer Sciences Corporation,
Contractor to the Environmental Protection Agency

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Rodgers, William (EEO)" <William.Rodgers@vw.com> 02/14/2013 08:58 AM

To: Verify Help Desk@CSC
cc: ""Jim Snyder' (Snyder.Jim@epamail.epa.gov)'" <Snyder.Jim@epamail.epa.gov>, "Giles, Michael (EEO)" <michael.giles@vw.com>
Subject: Duplicate Inbox test waiver announcements

Hello Vince,
We are getting duplicate inbox entries for test waivers again.

The status of your submission is shown below:

Submission

Document Name: LightDutyDecisionInformationSubmission.xml
Transaction Id: Ex. 4 - CBI
Date Originally Submitted: 02/12/2013

Status History

Date	Status	Description
Tue 02/12/2013 12:45 PM d	Complete	Your recent Decision Information submission has been received by the EPA and you will be notified if any additional actions on your part are required. A Submission Processing Report and any requested dataset reports can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message. The following is a summary of the processing report: Total Datasets Submitted: 1 Accepted Datasets: 1 Rejected Datasets: 0
Wed 02/13/2013 3:05 PM d	Complete	Confirmatory Test for the following Vehicle has been Waived: Manufacturer: Ex. 4 - CBI Vehicle Configuration: 0
Wed 02/13/2013 4:05 PM d	Complete	Confirmatory Test for the following Vehicle has been Waived: Manufacturer: Ex. 4 - CBI Vehicle Configuration: 0
Wed 02/13/2013 5:05 PM d	Complete	Confirmatory Test for the following Vehicle has been Waived: Manufacturer: Ex. 4 - CBI Vehicle Configuration: 0
Wed 02/13/2013 6:05 PM d	Complete	Confirmatory Test for the following Vehicle has been Waived: Manufacturer: Ex. 4 - CBI Vehicle Configuration: 0
Wed 02/13/2013 7:05 PM d	Complete	Confirmatory Test for the following Vehicle has been Waived: Manufacturer: Ex. 4 - CBI Vehicle Configuration: 0
Wed 02/13/2013 8:05 PM d	Complete	Confirmatory Test for the following Vehicle has been Waived: Manufacturer: Ex. 4 - CBI Vehicle Configuration: 0
Wed 02/13/2013 9:05 PM d	Complete	Confirmatory Test for the following Vehicle has been Waived: Manufacturer: Ex. 4 - CBI Vehicle Configuration: 0

Wed 02/13/2013 Complete Confirmatory Test for the following Vehicle has been Waived:
Manufacturer: Ex. 4 - CBI
10:05 PM d Vehicle Configuration: 0

Wed 02/13/2013 Complete Confirmatory Test for the following Vehicle has been Waived:
Manufacturer: Ex. 4 - CBI
11:05 PM d Vehicle Configuration: 0

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Manufacturer: Ex. 4 - CBI
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Manufacturer: Ex. 4 - CBI
8:06 AM d Vehicle Configuration: 0

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219

william.rodgers@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]
From: "Rodgers, William (EEO)"
Sent: Thur 2/14/2013 8:10:45 PM
Subject: RE: Test waiver VID VW324 30111/1

Got it thanks

From: Rodgers, William (EEO)
Sent: Thursday, February 14, 2013 1:18 PM
To: ''Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Subject: Test waiver VID VW324 30111/1

Hi Jim,

I wasn't able to catch you at your desk. We received the following confirmatory test waiver but are wondering if you missed Configuration-1 (Beetle coupe), or are you planning to test it?

Testing Waived: VWX Vehicle ID: VW324 30111 Vehicle Configuration: 0

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Thur 2/14/2013 8:10:45 PM
Subject: RE: Test waiver Ex. 4 - CBI

Got it thanks

From: Rodgers, William (EEO)
Sent: Thursday, February 14, 2013 1:18 PM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Subject: Test waiver Ex. 4 - CBI

Hi Jim,

I wasn't able to catch you at your desk. We received the following confirmatory test waiver but are wondering if you missed Configuration-1 (Beetle coupe), or are you planning to test it?

Testing Waived: Ex. 4 - CBI Vehicle Configuration: 0

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: "Rodgers, William (EEO)" [William.Rodgers@vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Thur 2/14/2013 8:38:59 PM
Subject: RE: Test waiver VID VW324 30111/1

Sorry, I haven't been at my desk at all today. I waived both yesterday but I don't think it finalized the second one.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 02/14/2013 03:11 PM
Subject: RE: Test waiver VID VW324 30111/1

Got it thanks

From: Rodgers, William (EEO)
Sent: Thursday, February 14, 2013 1:18 PM
To: ''Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Subject: Test waiver VID VW324 30111/1

Hi Jim,
I wasn't able to catch you at your desk. We received the following confirmatory test waiver but are wondering if you missed Configuration-1 (Beetle coupe), or are you planning to test it?

Testing Waived: VWX Vehicle ID: VW324 30111 Vehicle Configuration: 0

Thanks,
Bill Rodgers
VWGoA EEO
(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Thur 2/14/2013 8:38:59 PM
Subject: RE: Test waiver VID VW324 30111/1

Sorry, I haven't been at my desk at all today. I waived both yesterday but I don't think it finalized the second one.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Jim Snyder/AA/USEPA/US@EPA
Date: 02/14/2013 03:11 PM
Subject: RE: Test waiver VID VW324 30111/1

Got it thanks

From: Rodgers, William (EEO)
Sent: Thursday, February 14, 2013 1:18 PM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Subject: Test waiver VID VW324 30111/1

Hi Jim,
I wasn't able to catch you at your desk. We received the following confirmatory test waiver but are wondering if you missed Configuration-1 (Beetle coupe), or are you planning to test it?

Testing Waived: VWX Vehicle ID: VW324 30111 Vehicle Configuration: 0

Thanks,
Bill Rodgers
VWGoA EEO
(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Glas, Tobias
Sent: Mon 2/18/2013 8:55:04 PM
Subject: FW: VW Group - New Approved User
Tobias Glas-esa.pdf
user-info-20130211.xls
New_user_VW.pdf

FYI

From: Glas, Tobias
Sent: Monday, February 18, 2013 1:34 PM
To: 'Petersen.Pete@epamail.epa.gov'
Cc: 'Snyder.Jim@epamail.epa.gov'; 'Verify@epa.gov'
Subject: FW: VW Group - New Approved User

Hello !

My Audi and Bentley account work just fine but I could not register for the VW account because we issued a user name with only 7 digits.

Please change that to 8 digits as in the 'New_user_VW' filer is stated.

Thank you and sorry for the trouble !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Rodgers, William (EEO)
Sent: Thursday, February 14, 2013 7:31 AM
To: Glas, Tobias
Subject: FW: VW Group - New Approved User

From: Petersen.Pete@epamail.epa.gov [mailto:Petersen.Pete@epamail.epa.gov] **On Behalf Of** Verify@epa.gov
Sent: Tuesday, February 12, 2013 8:40 AM
To: Rodgers, William (EEO)
Cc: Snyder.Jim@epamail.epa.gov; Verify@epa.gov
Subject: Re: VW Group - New Approved User

I assume you have mailed these forms to the Verify Team address? I am not allowed to accept electronic copies.

"Rodgers, William (EEO)" ---02/11/2013 03:09:31 PM---Hello, Please see the attached forms to add a new approved user, Tobias Glas, to the Verify system a

From: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
To: Verify@EPA
Cc: Jim Snyder/AA/USEPA/US@EPA
Date: 02/11/2013 03:09 PM
Subject: VW Group - New Approved User

Hello,
Please see the attached forms to add a new approved user, Tobias Glas, to the Verify system and manufacturer codes VWX, ADX and BEX. We have also include a complete User information spreadsheet for the entire Volkswagen Group. Please notify me when this new user is set up and able to access the system.

Regards,

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com
(See attached file: Tobias Glas-esa.pdf)(See attached file: user-info-20130211.xls)

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]; Peter, Juergen (EASZ/1)[juergen.peter@volkswagen.de]
From: Rodgers, William (EEO)
Sent: Tue 2/19/2013 2:22:22 PM
Subject: VW Group - Decision information submitted

Hi Jim,

I submitted the Tests and Decision information for the last of the 2013 Beetle/Beetle Convertibles with the new generation 2.0l turbo. These represent the Bin 3 manual trans. configurations being added to test group Ex. 4 - CBI via running change.

VID: Ex. 4 - CBI

Ex. 4 - CBI – Manufacturer Confirmatory Required for High FE.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Tue 2/19/2013 7:21:55 PM
Subject: RE: VW Group - Decision Information Submissions for Federal Gen 3 2.0T

Hi Bill, My new email (outlook) is sorta working. I waived the tests except for the EDV which was randomed.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, February 18, 2013 3:45 PM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Peter, Juergen (EASZ/1); Thomas, Richard (EEO); Glas, Tobias
Subject: VW Group - Decision Information Submissions for Federal Gen 3 2.0T

Hello Jim,

Today we submitted the Test data and Decision Information for the following vehicles. These represent 2013 VW Beetle and Beetle Convertible models in the new federal-only test group DVWXV02.0B5F (generation-3 2.0l turbo engine). The remaining data for Jetta models to be included in this test group will be coming soon.

We would appreciate confirmatory test waivers as soon as possible so we can proceed with processing fuel economy labels for these models, scheduled to start production in the first week of March (week 10/2013). As a reminder, the first of the similar-design 1.8l turbo engines you expressed interest in testing are schedule for production in the 2014 Jetta models starting in June (week 27/2013).

DVWXV02.0B5F

EDV (worst case) VW324 30108 Configuration 0 – Beetle Convertible 2.0l TFSI with Automatic DSG Trans

FEDV VW324 30108 Configuration 1 – Beetle 2.0l TFSI with Automatic DSG Trans

FEDV VW324 30110 Configuration 0 – Beetle Convertible 2.0l TFSI with Manual-6 Trans

FEDV VW324 30110 Configuration 1 – Beetle 2.0l TFSI with Manual-6 Trans

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Tue 2/19/2013 7:38:45 PM
Subject: RE: VW Group - Decision Information Submissions for Federal Gen 3 2.0T

Thanks. Does this mean you will not override the random pick in this case.

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, February 19, 2013 2:22 PM
To: Rodgers, William (EEO)
Subject: RE: VW Group - Decision Information Submissions for Federal Gen 3 2.0T

Hi Bill, My new email (outlook) is sorta working. I waived the tests except for the EDV which was randomed.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, February 18, 2013 3:45 PM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Peter, Juergen (EASZ/1); Thomas, Richard (EEO); Glas, Tobias
Subject: VW Group - Decision Information Submissions for Federal Gen 3 2.0T

Hello Jim,

Today we submitted the Test data and Decision Information for the following vehicles. These represent 2013 VW Beetle and Beetle Convertible models in the new federal-only test group Ex. 4 - CBI The remaining data for Jetta models to be included in this test group will be coming soon.

We would appreciate confirmatory test waivers as soon as possible so we can proceed with processing fuel economy labels for these models, scheduled to start production in the first week of March (week 10/2013). As a reminder, the first of the similar-design 1.8l turbo engines you expressed interest in testing are schedule for production in the 2014 Jetta models starting in June (week 27/2013).

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Tobias.Glas@vw.com[Tobias.Glas@vw.com]
From: Sohacki, Lynn
Sent: Mon 2/25/2013 10:11:09 PM
Subject: Data for S108-0034
S108RXX-0034.pdf

Hi, Tobias.

Please find the data attached.

Thanks,

Lynn

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]
From: Rodgers, William (EEO)
Sent: Tue 2/26/2013 2:48:39 PM
Subject: VW Group - Supplemental Information Submitted VW324 30108-0

Hello Jim,

I have submitted the Supplemental information for the recently selected confirmatory tests to be conducted on **Ex. 4 - CBI** **Ex. 4 - CBI** We have requested that the Vehicle be delivered to EPA on April 8, 2013 and made the necessary change to the Decision Information input data in Verify. Please confirm the test schedule and let us know as soon as possible so we can arrange the vehicle's shipping.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Glas, Tobias
Sent: Tue 2/26/2013 4:10:29 PM
Subject: RE: Data for S108-0034

Thank you Lynn !

Tobias

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Monday, February 25, 2013 5:11 PM
To: Glas, Tobias
Subject: Data for S108-0034

Hi, Tobias.

Please find the data attached.

Thanks,

Lynn

To: cbanciu@ford.com[cbanciu@ford.com]
Cc: Pidgeon, Bill[pidgeon.bill@epa.gov]; christopher.cislo@gm.com[christopher.cislo@gm.com]; rws12@chrysler.com[rws12@chrysler.com]; tommy_chang@ahm.honda.com[tommy_chang@ahm.honda.com]; KhanF@NRD.NISSAN-USA.COM[KhanF@NRD.NISSAN-USA.COM]; edward.popa@audi.com[edward.popa@audi.com]; oliver.schmidt@vw.com[oliver.schmidt@vw.com]; Andrea.Antholzner@bmwna.com[Andrea.Antholzner@bmwna.com]; woolery@subaru-research-mi.com[woolery@subaru-research-mi.com]; dbarker@hatci.com[dbarker@hatci.com]; rbabcock@hatci.com[rbabcock@hatci.com]; vvarjabe@jaguar.com[vvarjabe@jaguar.com]; vvarjabe@jaguarlandrover.com[vvarjabe@jaguarlandrover.com]; cetnarc@daimler.com[cetnarc@daimler.com]; dennis.pawlak@na.mitsubishi-motors.com[dennis.pawlak@na.mitsubishi-motors.com]; walter.lewis@porsche.us[walter.lewis@porsche.us]; luis.hernandez@suz.com[luis.hernandez@suz.com]; drobertson@mazdausa.com[drobertson@mazdausa.com]; gbuffali@volvocars.com[gbuffali@volvocars.com]
From: Good, David
Sent: Wed 2/27/2013 10:26:52 PM
Subject: IUVP - entering CREE Submission to Verify for 2012 IUVP test vehicles

Camil & all,

Please forward this Verify "work-around" to the person who will be entering IUVP data into EPA's Verify data base.

We will try to make a better fix in Verify at the next opportunity (e.g. adding a new emission names of combined CREE and combined Optional CREE) which would only be allowed for entering IUVP data. However, it may be 5-6 months (or more) until we can implement the fix.

In the meantime, EPA requests that you follow the procedure as outlined in Toyota's email below to enter CREE data for 2012 IUVP vehicles. [EPA also requested that Toyota use that work-around.] Please don't use the work-around for any other type of data entry---only use it for entering IUVP data entry.

Please call me at 734-214-4450 or Bill Pidgeon at 734-214-4416 or email one of us if you have questions.

Thanks

From: william.meschievitz@tema.toyota.com [mailto:william.meschievitz@tema.toyota.com]
Sent: Wednesday, January 30, 2013 4:08 PM
To: Good, David; podgeon.bill@epa.gov
Cc: cassandra.pogoda@tema.toyota.com; tom.beierschmitt@tema.toyota.com
Subject: CREE Submission to Verify

Hello Dave and Bill,

Cassie, our engineer in charge of In-use testing, was able to submit In-use CREE data to Verify per the method we discussed over the phone on Jan 15th.

Details:
Entered the combined CREE result in the Test Result, CREE, Weighted result fields for Test Information (TI) data sets for the FTP and HWY tests.
Entered the combined CREE standard in the In-use standard column.
As there is no bag data for a combined CREE value, a "place holder" value of '999' was entered in for CREE bag data for the FTP TI
In the comment section of the FTP and HWY TI, the CREE value for that particular test was entered.

Please let me know if you have any questions, etc... about how we entered the data.

Best regards,

Will

William Meschievitz
Powertrain Certification & Test Engineering
Toyota Technical Center, USA
Phone: 734-995-6831
Fax: 734-995-5971

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Thur 2/28/2013 2:41:41 PM
Subject: RE: VW Group - Supplemental Information Submitted VW324 30108-0

Vehicle is scheduled for April 10th.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Tuesday, February 26, 2013 9:49 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO)
Subject: VW Group - Supplemental Information Submitted VW324 30108-0

Hello Jim,

I have submitted the Supplemental information for the recently selected confirmatory tests to be conducted on VID: VW324 30108-configuration 0 (representing a Beetle Convertible 2.0T Automatic). We have requested that the Vehicle be delivered to EPA on April 8, 2013 and made the necessary change to the Decision Information input data in Verify. Please confirm the test schedule and let us know as soon as possible so we can arrange the vehicle's shipping.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Fri 3/1/2013 1:44:01 PM
Subject: VW Verify user request

Hi Jim,

I sent a FedEx 2-day package to you with a new Verify user request. Please forward it to the Verify team for processing.

Thanks

Bill Rodgers

VWGoA EEO

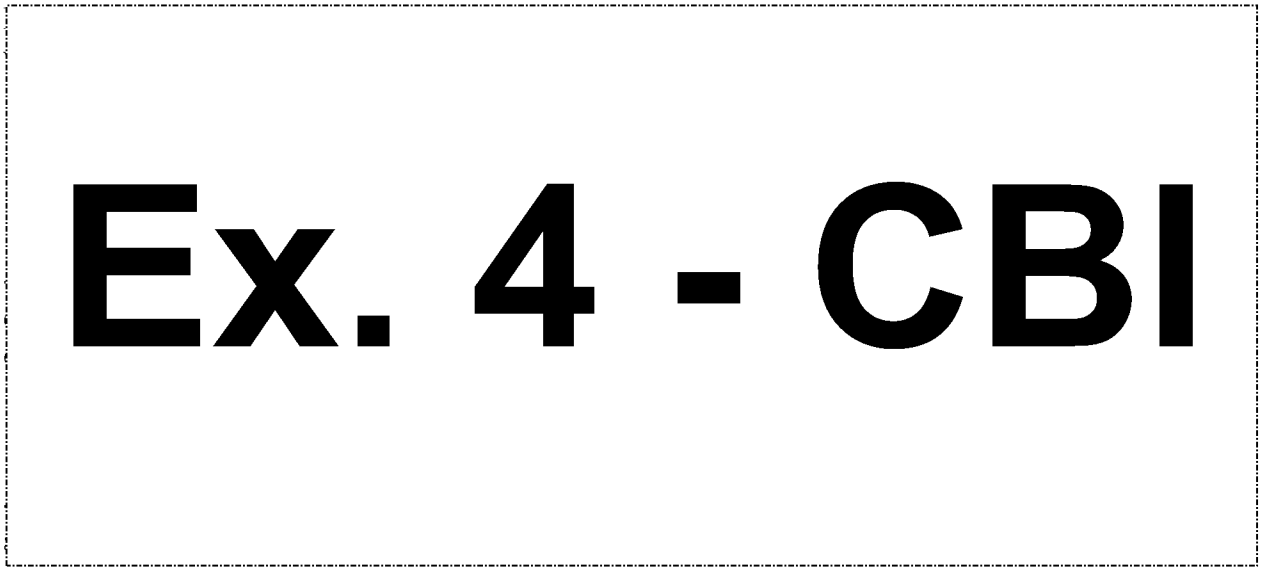
(248) 754-4219

To: Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Mon 3/4/2013 2:35:51 PM
Subject: RE: Decision Information Submitted

Thanks for the info. I am waiving it.

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Friday, March 01, 2013 11:44 AM
To: Snyder, Jim
Cc: Rodgers, William (EEO); Thomas, Richard (EEO)
Subject: Decision Information Submitted

Hello Jim,



Please advise of your confirmatory decisions at your earliest convencience, or call me if there are any questions.

Regards,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Giles, Michael (EEO)
Sent: Tue 3/5/2013 4:09:12 PM
Subject: Decision Information Submitted (Jetta Manual - 2 data sets)

Hello Jim,

Decision information for confirmatory testing was submitted today for two MY 2013 Jetta vehicles, with **manual** transmissions.

Ex. 4 - CBI

Ex. 4 - CBI

Please advise of your confirmatory decisions at your earliest convencience, or call me if there are any questions.

Regards,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Tue 3/5/2013 5:55:24 PM
Subject: RE: VW Verify user request

Bill, I passed it on.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Friday, March 01, 2013 8:44 AM
To: Snyder, Jim
Subject: VW Verify user request

Hi Jim,

I sent a FedEx 2-day package to you with a new Verify user request. Please forward it to the Verify team for processing.

Thanks

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Tue 3/5/2013 9:34:13 PM
Subject: re: 2013 FE Guide - Errors in EPA's data base as of March 1, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2013 FEGuide-all rel dates-no-sales-3-1-2013.xlsx

Richard,

Attached are the data in Verify as of March 1, 2013. Labels with pea green fill in the first few columns were not sent to DOE on March 4, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2013 FE Label data will be on April 1, 2013 or so (on a monthly schedule where I run the query on the 1st of the month). If you need an important 2013 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Bunker, Byron[bunker.byron@epa.gov]
From: Johnson, Stuart (EEO)
Sent: Wed 3/6/2013 4:12:57 PM
Subject: Fuel Economy Testing Correlation

Hello Byron,

Hey, I just wanted to say thanks for the conversation we had concerning fuel economy testing. I've continued to think about it and wanted to make an additional point that maybe wasn't so clear during the discussion.

Ex. 4 - CBI

to the VW Group.

We are guessing the issue may be this **Ex. 4 - CBI** we discussed but we really do not know for sure. Maybe in the end **Ex. 4 - CBI** But we understand the point that you may want to retain the ability to **Ex. 4 - CBI** real world fuel economy.

Hope that helps if you have further internal discussions.

Thanks again,

Stuart

PS: I've asked for our latest status regarding **Ex. 4 - CBI**

To: Stuart.Johnson@vw.com[Stuart.Johnson@vw.com]
From: Snyder, Jim
Sent: Thur 3/7/2013 2:02:05 PM
Subject: PHEV Useful life mtg

Stuart, Chris is tied up Monday afternoon. We can do 9:00 or 10:00. Preference?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Johnson, Stuart (EEO)
Sent: Thur 3/7/2013 2:20:42 PM
Subject: RE: PHEV Useful life mtg

How about 10:00? That works for us.

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, March 07, 2013 9:02 AM
To: Johnson, Stuart (EEO)
Subject: PHEV Useful life mtg

Stuart, Chris is tied up Monday afternoon. We can do 9:00 or 10:00. Preference?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Snyder, Jim
Required Attendees: Nevers, Chris; Johnson, Stuart (EEO) [Stuart.Johnson@vw.com]
Location: AA-Room-Office-N62-ASDCDConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: PHEV IUVP Useful life mtg
Start Date/Time: Mon 3/11/2013 2:00:00 PM
End Date/Time: Mon 3/11/2013 3:00:00 PM

From: Snyder, Jim
Required Attendees: Nevers, Chris; Johnson, Stuart (EEO) [Stuart.Johnson@vw.com]
Location: AA-Room-Office-N62-ASDCDConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: PHEV IUVP Useful life mtg
Start Date/Time: Mon 3/11/2013 2:00:00 PM
End Date/Time: Mon 3/11/2013 3:00:00 PM

When: Monday, March 11, 2013 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).
Where: AA-Room-Office-N62-ASDCDConfRoom/AA-OTAQ-OFFICE

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*~*~*~*

To: Johnson, Stuart (EEO)[Stuart.Johnson@vw.com]
From: Snyder, Jim
Sent: Thur 3/7/2013 3:19:46 PM
Subject: RE: PHEV Useful life mtg

You should see a mtg invitation .

From: Johnson, Stuart (EEO) [mailto:Stuart.Johnson@vw.com]
Sent: Thursday, March 07, 2013 9:21 AM
To: Snyder, Jim
Subject: RE: PHEV Useful life mtg

How about 10:00? That works for us.

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, March 07, 2013 9:02 AM
To: Johnson, Stuart (EEO)
Subject: PHEV Useful life mtg

Stuart, Chris is tied up Monday afternoon. We can do 9:00 or 10:00. Preference?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Johnson, Stuart (EEO)
Sent: Thur 3/7/2013 3:26:43 PM
Subject: RE: PHEV Useful life mtg

Got it! Thanks, Jim.

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, March 07, 2013 10:20 AM
To: Johnson, Stuart (EEO)
Subject: RE: PHEV Useful life mtg

You should see a mtg invitation .

From: Johnson, Stuart (EEO) [mailto:Stuart.Johnson@vw.com]
Sent: Thursday, March 07, 2013 9:21 AM
To: Snyder, Jim
Subject: RE: PHEV Useful life mtg

How about 10:00? That works for us.

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, March 07, 2013 9:02 AM
To: Johnson, Stuart (EEO)
Subject: PHEV Useful life mtg

Stuart, Chris is tied up Monday afternoon. We can do 9:00 or 10:00. Preference?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Johnson, Stuart (EEO)
Location: AA-Room-Office-N62-ASDCDConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Accepted: PHEV IUVP Useful life mtg
Start Date/Time: Mon 3/11/2013 2:00:00 PM
End Date/Time: Mon 3/11/2013 3:00:00 PM

To: nick@ichikawa.tec.toyota.co.jp[nick@ichikawa.tec.toyota.co.jp]; ishii@ntsel.go.jp[ishii@ntsel.go.jp]; oliver.moersch@daimler.com[oliver.moersch@daimler.com]; covadonga.astorga-llorens@jrc.ec.europa.eu[covadonga.astorga-llorens@jrc.ec.europa.eu]; konrad.kolesa@audi.de[konrad.kolesa@audi.de]; stephan.redmann@bmvbs.bund.de[stephan.redmann@bmvbs.bund.de]; beatrice.lopez@utac.com[beatrice.lopez@utac.com]; chosier@ford.com[chosier@ford.com]; celine.vallaude@utac.com[celine.vallaude@utac.com]; ka-koba@shinsa.ntsel.go.jp[ka-koba@shinsa.ntsel.go.jp]; per.ohlund@transportstyrelsen.se[per.ohlund@transportstyrelsen.se]; william.coleman@volkswagen.de[william.coleman@volkswagen.de]; Seiler@vda.de[Seiler@vda.de]; alessandro.marotta@jrc.ec.europa.eu[alessandro.marotta@jrc.ec.europa.eu]; serge.dubuc@t-online.de[serge.dubuc@t-online.de]; Heinz.Steven@t-online.de[Heinz.Steven@t-online.de]; trt.engineer@googlemail.com[trt.engineer@googlemail.com]; nikolaus.steininger@ec.europa.eu[nikolaus.steininger@ec.europa.eu]; christoph.albus@bmvbs.bund.de[christoph.albus@bmvbs.bund.de]; Chris.Parkin@dft.gsi.gov.uk[Chris.Parkin@dft.gsi.gov.uk]; narusawa@ntsel.go.jp[narusawa@ntsel.go.jp]; nakhawa.ecl@araiindia.com[nakhawa.ecl@araiindia.com]; Romain.Hubert@unece.org[Romain.Hubert@unece.org]; Pierpaolo.Cazzola@unece.org[Pierpaolo.Cazzola@unece.org]; ARijnders@rdw.nl[ARijnders@rdw.nl]; hschmidt@tuev-nord.de[hschmidt@tuev-nord.de]; dirk.d.baeuchle@daimler.com[dirk.d.baeuchle@daimler.com]; kamal.charafeddine@porsche.de[kamal.charafeddine@porsche.de]; iddo@sidekickprojects.nl[iddo@sidekickprojects.nl]; john.may@aecc.be[john.may@aecc.be]; stephan.hartmann@volkswagen.de[stephan.hartmann@volkswagen.de]; detlef.stendel@volkswagen.de[detlef.stendel@volkswagen.de]; peter@theicct.org[peter@theicct.org]; Christian.Vavra@maha.de[Christian.Vavra@maha.de]; eric.donati@mpsa.com[eric.donati@mpsa.com]; bertrand.mercier@mpsa.com[bertrand.mercier@mpsa.com]; laura.bigi@mpsa.com[laura.bigi@mpsa.com]; Matthias.Tappe@de.bosch.com[Matthias.Tappe@de.bosch.com]; stanislaw.radzimirski@its.waw.pl[stanislaw.radzimirski@its.waw.pl]; tce@jama-e.be[tce@jama-e.be]; Werner.Tober@ifa.tuwien.ac.at[Werner.Tober@ifa.tuwien.ac.at]; Andreas.EA.Eder@bmw.de[Andreas.EA.Eder@bmw.de]; tmayer4@ford.com[tmayer4@ford.com]; thaniu@jari.or.jp[thaniu@jari.or.jp]; yuichi_aoyama@n.t.rd.honda.co.jp[yuichi_aoyama@n.t.rd.honda.co.jp]; euan.macdonald@logos-eu.com[euan.macdonald@logos-eu.com]; danitza.fedeli@delphi.com[danitza.fedeli@delphi.com]; ueda-j2kt@mlit.go.jp[ueda-j2kt@mlit.go.jp]; pjhy98@korea.kr[pjhy98@korea.kr]; dirk.bosteels@aecc.be[dirk.bosteels@aecc.be]; a.gusarov@autorc.ru[a.gusarov@autorc.ru]; acelas@tin.it[acelas@tin.it]; adolfo.perujo@ec.europa.eu[adolfo.perujo@ec.europa.eu]; aeeda@depollauto.fr[aeeda@depollauto.fr]; aganguli@siam.in[aganguli@siam.in]; aldo.bassi@sintesiab.it[aldo.bassi@sintesiab.it]; alexander.bergmann@avl.com[alexander.bergmann@avl.com]; alin.rosca@rarom.ro[alin.rosca@rarom.ro]; alois.krasenbrink@jrc.it[alois.krasenbrink@jrc.it]; ambujsharma@hotmail.com[ambujsharma@hotmail.com]; amourfi_cn@sina.com[amourfi_cn@sina.com]; anders.roj@volvo.com[anders.roj@volvo.com]; annie.luchie@agoria.be[annie.luchie@agoria.be]; antonio.erario@mit.gov.it[antonio.erario@mit.gov.it]; arjan.dijkhuizen@toyota-europe.com[arjan.dijkhuizen@toyota-europe.com]; arnaud.duvielguerbigny@aegpl.be[arnaud.duvielguerbigny@aegpl.be]; aurelia.buzgan@rarom.ro[aurelia.buzgan@rarom.ro]; b07@mfa.gr[b07@mfa.gr]; barouch.giechaskiel@avl.com[barouch.giechaskiel@avl.com]; bernard.gauvin@developpement-durable.gouv.fr[bernard.gauvin@developpement-durable.gouv.fr]; bernd.fusshoeller@delphi.com[bernd.fusshoeller@delphi.com]; bjarman@iangv.org[bjarman@iangv.org]; bondm@sabs.co.za[bondm@sabs.co.za]; Charmley, William[charmley.william@epa.gov]; chaudhari.ecl@araiindia.com[chaudhari.ecl@araiindia.com]; chenqs@tsinghua.edu.cn[chenqs@tsinghua.edu.cn]; christian.bach@empa.ch[christian.bach@empa.ch]; christian.hartmann@maha.de[christian.hartmann@maha.de]; coonsm@tc.gc.ca[coonsm@tc.gc.ca]; cornetti@iol.it[cornetti@iol.it]; costanza.testino@libero.it[costanza.testino@libero.it]; Laroo, Chris[laroo.chris@epa.gov]; Nevers, Chris[nevers.chris@epa.gov]; Jackson,

Cleophas[jackson.cleophas@epa.gov]; daniel.hitzler@maha.de[daniel.hitzler@maha.de]; daniel.kopaczewski@developpement-durable.gouv.fr[daniel.kopaczewski@developpement-durable.gouv.fr]; de_theux_frederic@cat.com[de_theux_frederic@cat.com]; director@araiindia.com[director@araiindia.com]; dleveratto@oica.net[dleveratto@oica.net]; doi@jasic.org[doi@jasic.org]; ed.crupi@ec.gc.ca[ed.crupi@ec.gc.ca]; efernandez@appluscorp.com[efernandez@appluscorp.com]; elisa.dumitrescu@unep.org[elisa.dumitrescu@unep.org]; erik.figenbaum@vegvesen.no[erik.figenbaum@vegvesen.no]; erwin.segers@honda-eu.com[erwin.segers@honda-eu.com]; espena@vegvesen.no[espena@vegvesen.no]; eva.iverfeldt@scania.com[eva.iverfeldt@scania.com]; Nam, Ed[nam.ed@epa.gov]; fakmadza@hyundai-europe.com[fakmadza@hyundai-europe.com]; fcagnolati@landi.it[fcagnolati@landi.it]; ferenc.pekar@ec.europa.eu[ferenc.pekar@ec.europa.eu]; figegmbh@aol.com[figegmbh@aol.com]; flavio.mariani@eni.it[flavio.mariani@eni.it]; Fehmi.Akgun@mam.gov.tr[Fehmi.Akgun@mam.gov.tr]; gascar@korea.ac.kr[gascar@korea.ac.kr]; georges.verdon@bluewin.ch[georges.verdon@bluewin.ch]; gerben.passier@tno.nl[gerben.passier@tno.nl]; gerhard.gissibl@bmw.de[gerhard.gissibl@bmw.de]; Giorgio.billi@fptindustrial.com[Giorgio.billi@fptindustrial.com]; giorgio.martini@jrc.it[giorgio.martini@jrc.it]; giovanni.de-santi@ec.europa.eu[giovanni.de-santi@ec.europa.eu]; giovanni.margaria@iveco.com[giovanni.margaria@iveco.com]; gk.sharma@natrip.in[gk.sharma@natrip.in]; guenter.hoermandinger@ec.europa.eu[guenter.hoermandinger@ec.europa.eu]; h-yamada@ntsel.go.jp[h-yamada@ntsel.go.jp]; hager@hol.gr[hager@hol.gr]; hakan.johansson@vv.se[hakan.johansson@vv.se]; hannon, john[hannon.john@epa.gov]; hans-rudolf.hein@bridgestone.eu[hans-rudolf.hein@bridgestone.eu]; hathai@tisi.go.th[hathai@tisi.go.th]; Heinz.Berger@astra.admin.ch[Heinz.Berger@astra.admin.ch]; henk.baarbe@minienm.nl[henk.baarbe@minienm.nl]; henk.j.dekker@tno.nl[henk.j.dekker@tno.nl]; heyuntang@catarc.ac.cn[heyuntang@catarc.ac.cn]; hidenori.moriya@toyota-europe.com[hidenori.moriya@toyota-europe.com]; highband@ts2020.kr[highband@ts2020.kr]; hirachan@nrcs.org.za[hirachan@nrcs.org.za]; hj.stein@daimler.com[hj.stein@daimler.com]; hted@bis.org.in[hted@bis.org.in]; hua.lukarlsson@scania.com[hua.lukarlsson@scania.com]; hypark@katech.re.kr[hypark@katech.re.kr]; ian.hodgson@ec.europa.eu[ian.hodgson@ec.europa.eu]; ian.marshall@aeat.co.uk[ian.marshall@aeat.co.uk]; iangv@iangv.org[iangv@iangv.org]; ih@acea.be[ih@acea.be]; info@federmetano.it[info@federmetano.it]; isabelle.guerin@renault.com[isabelle.guerin@renault.com]; j-teranuma@mail.nissan.co.jp[j-teranuma@mail.nissan.co.jp]; j.bozewicz@tdt.pl[j.bozewicz@tdt.pl]; Jackson, Cleophas[jackson.cleophas@epa.gov]; jacques.dartoy@total.com[jacques.dartoy@total.com]; jacques.marmy@iru.org[jacques.marmy@iru.org]; jaime.alamo@ngvaeurope.eu[jaime.alamo@ngvaeurope.eu]; janghyokko@syu.ac.kr[janghyokko@syu.ac.kr]; jasic@jasic.org[jasic@jasic.org]; jcsarbach@fiev.fr[jcsarbach@fiev.fr]; jean-francois.renaudin@volvo.com[jean-francois.renaudin@volvo.com]; jean-francois.roy@ec.gc.ca[jean-francois.roy@ec.gc.ca]; jens.huegel@iru.org[jens.huegel@iru.org]; jevans@smmt.co.uk[jevans@smmt.co.uk]; jiaquanli2008@163.com[jiaquanli2008@163.com]; jiliang@craes.org.cn[jiliang@craes.org.cn]; jkubsh@meca.org[jkubsh@meca.org]; jmandel@emamail.org[jmandel@emamail.org]; jnatcwsl@yahoo.com.cn[jnatcwsl@yahoo.com.cn]; jnhai@cnhtc.cn[jnhai@cnhtc.cn]; johan.renders@ec.europa.eu[johan.renders@ec.europa.eu]; jon.andersson@ricardo.com[jon.andersson@ricardo.com]; jon.real@infrastructure.gov.au[jon.real@infrastructure.gov.au]; jps@cambustion.co.uk[jps@cambustion.co.uk]; jps@cambustion.com[jps@cambustion.com]; jseisler@cleanfuelsconsulting.org[jseisler@cleanfuelsconsulting.org]; juhani.laurikko@vtt.fi[juhani.laurikko@vtt.fi]; jwlee@kotsa.or.kr[jwlee@kotsa.or.kr]; Sanchez, James[sanchez.james@epa.gov]; katrieng@ts2020.kr[katrieng@ts2020.kr]; ken.rose@concawe.org[ken.rose@concawe.org]; kerstin.meyer@transportenvironment.org[kerstin.meyer@transportenvironment.org]; kkgandhi@siam.in[kkgandhi@siam.in]; kkokrda@emamail.org[kkokrda@emamail.org]; klaus.burger@maha.de[klaus.burger@maha.de]; komarov@niiat.ru[komarov@niiat.ru]; ksr@cambustion.co.uk[ksr@cambustion.co.uk]; kubota@jasic.org[kubota@jasic.org];

kvi@autorc.ru[kvi@autorc.ru]; Simon, Karl[Simon.Karl@epa.gov];
l.holmqvist@clepa.be[l.holmqvist@clepa.be]; lianne.noseworthy@ec.gc.ca[lianne.noseworthy@ec.gc.ca];
liuxin@tju.edu.cn[liuxin@tju.edu.cn]; liwl@petrochina.com.cn[liwl@petrochina.com.cn];
llezhnev@nami.ru[llezhnev@nami.ru]; lschulte@tuev-nord.de[lschulte@tuev-nord.de]; lubos.trnka@tuv-sud.cz[lubos.trnka@tuv-sud.cz]; lubos.trnka@volny.cz[lubos.trnka@volny.cz];
luhongyu@catarc.ac.cn[luhongyu@catarc.ac.cn]; Wehrly, Linc[wehrly.linc@epa.gov];
m.r.stepper@cummins.com[m.r.stepper@cummins.com]; m.seifert@svgw.ch[m.seifert@svgw.ch];
m.sokolov@autorc.ru[m.sokolov@autorc.ru]; m.vaysblum@autorc.ru[m.vaysblum@autorc.ru];
mafh@tsinghua.edu.cn[mafh@tsinghua.edu.cn];
magnus.lindgren@trafikverket.se[magnus.lindgren@trafikverket.se];
manuel.lage@ngvaeurope.eu[manuel.lage@ngvaeurope.eu];
marc.kwanten@mobilit.fgov.be[marc.kwanten@mobilit.fgov.be];
marc.steen@ec.europa.eu[marc.steen@ec.europa.eu];
marcin.rychter@its.waw.pl[marcin.rychter@its.waw.pl]; maria.spiliopoulou-kaparia@ec.europa.eu[maria.spiliopoulou-kaparia@ec.europa.eu];
martin.gerstl@de.bosch.com[martin.gerstl@de.bosch.com];
martin.koubek@dot.gov[martin.koubek@dot.gov];
martin.openshaw@aftonchemical.com[martin.openshaw@aftonchemical.com];
mary.mmukindia@unep.org[mary.mmukindia@unep.org];
masaru.idoguchi@hino.co.jp[masaru.idoguchi@hino.co.jp];
massimo.carriero@jrc.it[massimo.carriero@jrc.it];
matthias.maedge@ngvaeurope.eu[matthias.maedge@ngvaeurope.eu];
maurizio.parca@bridgestone.eu[maurizio.parca@bridgestone.eu]; messa@iso.org[messa@iso.org];
michael.frank@de.bosch.com[michael.frank@de.bosch.com];
michael.hygrell@volvo.com[michael.hygrell@volvo.com];
michel.loccufier@mobilit.fgov.be[michel.loccufier@mobilit.fgov.be];
mission.turkey@ties.itu.int[mission.turkey@ties.itu.int]; mkasper@matter-engineering.com[mkasper@matter-engineering.com]; mori@jasic.org[mori@jasic.org];
mujawar.zia@mahindra.com[mujawar.zia@mahindra.com]; Sabourin, Michael[sabourin.michael@epa.gov]; nalinee@tisi.go.th[nalinee@tisi.go.th]; Nam, Ed[nam.ed@epa.gov];
nan@fstyr.dk[nan@fstyr.dk]; narusawa@ntsel.go.jp[narusawa@ntsel.go.jp];
e.bastiaensen@immamotorcycles.org[e.bastiaensen@immamotorcycles.org];
nlebigot@ccfa.fr[nlebigot@ccfa.fr]; Olechiw, Michael[olechiw.michael@epa.gov];
oliver.eberhardt@bmu.bund.de[oliver.eberhardt@bmu.bund.de]; p.flanker@denso.nl[p.flanker@denso.nl];
p.laurent@clepa.be[p.laurent@clepa.be]; padro@lanl.gov[padro@lanl.gov];
paibanez@mityc.es[paibanez@mityc.es]; panagiota.dilara@jrc.it[panagiota.dilara@jrc.it];
patrik.soltic@empa.ch[patrik.soltic@empa.ch]; paul.adams@volvo.com[paul.adams@volvo.com];
peter.kupske@bmw.de[peter.kupske@bmw.de]; peter.scherm@vdma.org[peter.scherm@vdma.org];
peter.smeds@vv.se[peter.smeds@vv.se]; pg@acea.be[pg@acea.be];
philip.r.horton@gm.com[philip.r.horton@gm.com]; pierre.bonnel@jrc.it[pierre.bonnel@jrc.it];
pilar.perez@ngvaeurope.eu[pilar.perez@ngvaeurope.eu]; pollak.ivan@kti.hu[pollak.ivan@kti.hu];
prayong07@hotmail.com[prayong07@hotmail.com]; ptinakon@hotmail.com[ptinakon@hotmail.com];
qinkongjian@catarc.ac.cn[qinkongjian@catarc.ac.cn];
rajendra.petkar@tatatechnologies.com[rajendra.petkar@tatatechnologies.com];
ralph.kellermann@diplo.de[ralph.kellermann@diplo.de];
ravchoda@immamotorcycles.org[ravchoda@immamotorcycles.org];
rdey@ccsglobalgroup.com[rdey@ccsglobalgroup.com]; rene.nulens@toyota-europe.com[rene.nulens@toyota-europe.com]; rlabza@hyundai-europe.com[rlabza@hyundai-europe.com]; rob.cox@ipieca.org[rob.cox@ipieca.org];
rob.cuelenaere@minienm.nl[rob.cuelenaere@minienm.nl];
robert.falk@dft.gsi.gov.uk[robert.falk@dft.gsi.gov.uk];
romain.lamberty@snch.lu[romain.lamberty@snch.lu]; rsantafe@idiada.com[rsantafe@idiada.com];
rudi.valgaeren@eur.bosal.com[rudi.valgaeren@eur.bosal.com]; R.Gense@Pon.nl[R.Gense@Pon.nl];
s.piccolo@federchimica.it[s.piccolo@federchimica.it]; saenzejc@inta.es[saenzejc@inta.es];
saluck@tisi.go.th[saluck@tisi.go.th]; Sherwood, Todd[sherwood.todd@epa.gov];
shikata@lema.or.jp[shikata@lema.or.jp];

shirish.a.shimpi@cummins.com[shirish.a.shimpi@cummins.com];
simlaoz@mfa.gov.tr[simlaoz@mfa.gov.tr]; spark@korea.ac.kr[spark@korea.ac.kr];
spetrovic@mas.bg.ac.rs[spetrovic@mas.bg.ac.rs]; srayner3@ford.com[srayner3@ford.com];
sshowler@oica.net[sshowler@oica.net]; stefan.carli@volkswagen.de[stefan.carli@volkswagen.de];
stephan.krinke@volkswagen.de[stephan.krinke@volkswagen.de]; su-sato@ntsel.go.jp[su-sato@ntsel.go.jp]; sylvie.gingras@bnq.qc.ca[sylvie.gingras@bnq.qc.ca]; t.hisler@ccfa.fr[t.hisler@ccfa.fr];
tcs@jama-e.be[tcs@jama-e.be]; technique@ccfa.fr[technique@ccfa.fr];
techsec@clepa.be[techsec@clepa.be]; thachapongt@yahoo.com[thachapongt@yahoo.com];
thomas.goldbach@gm.com[thomas.goldbach@gm.com]; toba@jasic.org[toba@jasic.org];
toni.lehn@delphi.com[toni.lehn@delphi.com];
toshiaki.kakegawa@hino.co.jp[toshiaki.kakegawa@hino.co.jp]; tstoffels@rdw.nl[tstoffels@rdw.nl];
tsuburai@jasic.org[tsuburai@jasic.org]; Schrodt, Thomas[schrodt.thomas@epa.gov]; Sherwood, Todd[sherwood.todd@epa.gov]; Bradish, Tracey[bradish.tracey@epa.gov];
uhlik.krisztian@kti.hu[uhlik.krisztian@kti.hu]; uklein@ford.com[uklein@ford.com]; ulrich.beutke@mtu-online.com[ulrich.beutke@mtu-online.com];
ulrich.gottwick@de.bosch.com[ulrich.gottwick@de.bosch.com];
uwe.thien@magnasteyr.com[uwe.thien@magnasteyr.com]; velipetr@hotmail.com[velipetr@hotmail.com];
vladimir.perny@tuv-sud.cz[vladimir.perny@tuv-sud.cz];
volker.rothe@de.opel.com[volker.rothe@de.opel.com];
vustymenko@insat.org.ua[vustymenko@insat.org.ua];
wilfred.kahrmann@swagelok.com[wilfred.kahrmann@swagelok.com];
williams_paul@perkins.com[williams_paul@perkins.com]; woitsch@dekra-automobil.cz[woitsch@dekra-automobil.cz]; wolfgang.schindler@avl.com[wolfgang.schindler@avl.com];
wuxf@craes.org.cn[wuxf@craes.org.cn]; Charmley, William[charmley.william@epa.gov];
yannick.souchet@developpement-durable.gouv.fr[yannick.souchet@developpement-durable.gouv.fr];
yinhang@vecc-mep.org.cn[yinhang@vecc-mep.org.cn];
youlinhua@catarc.ac.cn[youlinhua@catarc.ac.cn]; yphou@tongji.edu.cn[yphou@tongji.edu.cn];
yssong@katech.re.kr[yssong@katech.re.kr]; yu.jia@uaes.com[yu.jia@uaes.com];
yuanying@craes.org.cn[yuanying@craes.org.cn];
yuki@kawatsu.tec.toyota.co.jp[yuki@kawatsu.tec.toyota.co.jp]; zisis@auth.gr[zisis@auth.gr]
From: giovanni.durbano@bafu.admin.ch
Sent: Mon 3/11/2013 3:44:55 PM
Subject: Joint compromise on payload factors for category 2 vehicles (N1 and N2)
20120308_Joint compromise proposal on N1 payload.ppt

Dear DTP Members

Please find below for your review a joint proposal of the European Commission, Germany, Japan, Korea and the Netherlands, supported by Transport & Environment (T&E), for a harmonized payload factor for category 2 vehicles (which includes N1 and N2 vehicles).

Including that proposal the complete payload proposal would then be:

Category 1-1 vehicle, Category 1-2: 15%
Category 2: 28 %

Many thanks to all involved Stakeholders and Contracting Parties for the engaged and cooperative work

as well as to Oliver.

Best regards,

G. D'Urbano

Giovanni D'Urbano
dipl. Ing. ETH
Head of Section

Department of the Environment, Transport,
Energy and Communications (DETEC)

Federal Office for the Environment (FOEN)
Air Pollution Control and Chemicals
Traffic Section

Worblentalstrasse 68, 3063 Ittigen,
Postal address: 3003 Bern
Tel +41 31 322 93 40
Fax +41 31 324 01 37
giovanni.durbano@bafu.admin.ch

http://www.bafu.admin.ch/air

http://www.bafu.admin.ch/chemicals

Proposal on the

Payload factor for N1 vehicles

jointly submitted by

European Commission, Germany, Japan, Korea and the Netherlands

and supported by

Transport and Environment (T&E)

State of play

In 2012 different proposals for payload factors for N1 vehicles were discussed. In DTP meeting of 65th GRPE it was generally agreed to try to come to a harmonized approach also for the payload factor for **category 2* (N1)** vehicles.

* as defined in UN-ECE S.R. 1

Compromise proposal for category 2 (N1) vehicles

Although different vehicle classifications are used in different regions, based on analysis of customer survey data from Europe, Japan and Korea and using a distance weighted approach it is proposed to apply a harmonized **payload factor of 28% for category 2 (N1) vehicles.**

Table: Distance weighted payload factor for N1 vehicles

	EU	JPN	KOR	EU/JPN/KOR
Payload (%)	35	10,9*	37,7	**27,6**
Total Dist. (10^6 km)	256.000	135.389	37.615	

* for commercial use 31% and for private use (predominant in Japan) 9%

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Harris, Dale (EEO)[Dale.Harris@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 3/13/2013 6:00:53 PM
Subject: RE: 2014 Certification Requests

Correction. Test group Ex. 4 - CBI

Bill

From: Rodgers, William (EEO)
Sent: Wednesday, March 13, 2013 1:56 PM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Cc: Giles, Michael; Harris, Dale (EEO)
Subject: 2014 Certification Requests

Hello Jim,

When submitting 2014 Certification Requests we continue to get rejection notices which say that our 2014 Pre-Model Year GHG Report has not been submitted. This report was submitted in December 2012. I submitted a Certification Request today for test group Ex. 4 - CBI and indicated "No" when asked if the report has been submitted so that the request would be accepted. Please let us know if there is something else we need to do on our end to solve this issue.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Harris, Dale (EEO)[Dale.Harris@vw.com]
From: Snyder, Jim
Sent: Wed 3/13/2013 11:03:45 PM
Subject: RE: 2014 Certification Requests

As a heads up , I will be offsite for all of next week. I won't have Verify access but I may have sporadic email access. Dave Wright (214-4467) is cert backup. Vince will be primary contact for the Beetle TDI tests.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, March 13, 2013 2:01 PM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Harris, Dale (EEO)
Subject: RE: 2014 Certification Requests

Correction. Test group EADXT03.02UG.

Bill

From: Rodgers, William (EEO)
Sent: Wednesday, March 13, 2013 1:56 PM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Cc: Giles, Michael; Harris, Dale (EEO)
Subject: 2014 Certification Requests

Hello Jim,

When submitting 2014 Certification Requests we continue to get rejection notices which say that our 2014 Pre-Model Year GHG Report has not been submitted. This report was submitted in December 2012. I submitted a Certification Request today for test group EVWXT03.02UG and indicated "No" when asked if the report has been submitted so that the request would be accepted. Please let us know if there is something else we need to do on our end to solve this issue.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Wehrly, Linc[wehrly.linc@epa.gov]
From: Harris, Dale (EEO)
Sent: Wed 3/20/2013 6:55:37 PM
Subject: MY 2012 NOx Fleeta Average - VW
2012 Final NMOG Report.pdf

Mr. Wehrly

Attached is the MY2012 NOx Fleet Average Report from VWGoA. Please let me know if there are any questions or concerns. Thanks!!!

Regards,

Dale Harris

Certification Specialist

VOLKSWAGEN Group of America, Inc.

Engineering and Environmental Office (EEO)
3800 Hamlin

AuburnHills Michigan 48326

United States of America

P: +1 248 754-4218

E: Dale.Harris@vw.com

VOLKSWAGEN

GROUP OF AMERICA

Mr. Linc Wehrly
Compliance and Innovative Strategies Division
Light-Duty Vehicle Group
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan

Leonard Kata	Name
Manager	Title
EEO	Department
248-754-4204	Phone
248-754-4207	Fax
Leonard.kata@vw.com	E-Mail

March 15, 2013 Date

Subject: NOx Fleet Average Report for the 2012 Model Year

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Dear Mr. Wehrly,

Please find attached the 2012 Volkswagen Group NOx Fleet Average report and completed EPA MS Excel spreadsheet. The 2012 Volkswagen Group fleet has a NOx fleet average credit of 2,389. The 2011 carryover NOx credit 7,462, resulting in a total of 9,851 NOx banked credits.

With regard to the EPA template spreadsheet, the total does not include the HLDT volume as we believe it should be included in model years after 2008, reference 86.1860-04 (f)(ii).

However, all the HLDT test groups are certified to the Tier 2 BIN 5, 0.07 g/mi NOx standard. This does not affect the earned NOx credits that are included on this sheet as all our credit earning BIN 3 models are in the LDV/LDT category.

We wish to bank the above total of 9,851 credits for future use.

Please contact me at (248) 754-4204, if you would like to discuss any aspects of this submission.

Sincerely,

Leonard Kata
Engineering and Environmental Office

Enclosure

Manufacturer Name	Model Year	INTERIM LDV/LLDT CREDITS			INTERIM HLDT/MDPV CREDITS		
		Interim LDV/LLDT Credits (Deficits) - Current MY	Interim LDV/LLDT Credit (Deficits) Carryover - Previous MYs	Total Interim LDV/LLDT Credits (Deficits)	Interim HLDT/MDPV Credits (Deficits) - Current MY	Interim HLDT/MDPV Credit (Deficits) Carryover - Previous MYs	Total Interim HLDT/MDPV Credits (Deficits)
VOLKSWAGEN GROUP	2012	0		0	0	0	0

TIER 2 LDV/LLDT CREDITS				TIER 2 HLDT/MDPV CREDITS - Early Banking			
Tier 2 LDV/LLDT Credits (Deficits) - Current MY	Tier 2 LDV/LLDT Credit (Deficit) Carryover - Previous MYs	Tier 2 LDV/LLDT Credits to be applied to Interim LDV/LLDT deficit, if applicable	Total Tier 2 LDV/LLDT Credits (Deficits)	Early Banking Credits - Tier 2 HLDT/MDPV - Current MY	Early Banking Carryover Credits - Tier 2 HLDT/MDPV - Previous MYs	Tier 2 HLDT/MDPV Credits to be applied to Interim HLDT/MDPV deficit, if applicable	Total Tier 2 HLDT/MDPV Early Banking Credits
2,389	7,462	0	9,851	0	0	0	0

Vehicle Type (LDV/LLDT, HLDT, or MDPV)	Engine Family Name or Test Group	Bin Number	Interim or Tier 2	Subject to Alternative Phase In Schedule? (Y/N)	Useful Life (1,000 mi.)	Subject to Intermediate Life Exhaust Stds? (Y/N)	Sales (# of Vehicles)	NOx Level (g/mi)	Low Bin Multiplier	Adjusted Sales (# of Vehicles)	Useful Life Adjustment Factor	Credits Used	Credits Allowed	Credit Balance	NOx Std for Avg Set
LDV/LLDT	CADXJ02.03UA	5	Tier 2	N	120	Y	Ex. 4 - CBI	0.070	1.0	Ex. 4 - CBI	1	3,041	3,041	0	0.07
LDV/LLDT	CADXJ02.03UB	5	Tier 2	N	120	Y		0.070	1.0		1	1,990	1,990	0	0.07
HLDT	CADXT03.02UG	5	Tier 2	N	120	Y		0.070	1.0		1	226	226	0	0.07
HLDT	CADXT03.03UG	5	Tier 2	N	120	Y		0.070	1.0		1	131	131	0	0.07
HLDT	CADXT03.0TLF	5	Tier 2	N	120	Y		0.070	1.0		1	195	195	0	0.07
HLDT	CADXT03.23UC	5	Tier 2	N	120	Y		0.070	1.0		1	425	425	0	0.07
LDV/LLDT	CADXV02.03PA	5	Tier 2	N	120	Y		0.070	1.0		1	307	307	0	0.07
LDV/LLDT	CADXV02.53UK	5	Tier 2	N	120	Y		0.070	1.0		1	16	16	0	0.07
LDV/LLDT	CADXV03.03UF	5	Tier 2	N	120	Y		0.070	1.0		1	1,108	1,108	0	0.07
LDV/LLDT	CADXV04.2365	5	Tier 2	N	120	Y		0.070	1.0		1	77	77	0	0.07
LDV/LLDT	CADXV04.2375	5	Tier 2	N	120	Y		0.070	1.0		1	11	11	0	0.07
LDV/LLDT	CADXV04.23UH	5	Tier 2	N	120	Y		0.070	1.0		1	155	155	0	0.07
LDV/LLDT	CADXV05.2LR8	5	Tier 2	N	120	Y		0.070	1.0		1	49	49	0	0.07
LDV/LLDT	CBEXV06.0501	5	Tier 2	N	120	Y		0.070	1.0		1	73	73	0	0.07
LDV/LLDT	CBEXV06.84LA	5	Tier 2	N	120	Y		0.070	1.0		1	8	8	0	0.07
LDV/LLDT	CNLXV06.5L83	5	Tier 2	N	120	Y		0.070	1.0		1	10	10	0	0.07
HLDT	CVWXT03.0HEV	5	Tier 2	N	120	Y		0.070	1.0		1	14	14	0	0.07
HLDT	CVWXT03.6U76	5	Tier 2	N	120	Y		0.070	1.0		1	171	171	0	0.07
LDV/LLDT	CVWXV02.03PA	5	Tier 2	N	120	Y		0.070	1.0		1	766	766	0	0.07
LDV/LLDT	CVWXV02.03SA	3	Tier 2	N	120	Y		0.030	1.0		1	201	470	269	0.07
LDV/LLDT	CVWXV02.0U36	5	Tier 2	N	120	Y		0.070	1.0		1	962	962	0	0.07
LDV/LLDT	CVWXV02.0U4S	5	Tier 2	N	120	Y		0.070	1.0		1	763	763	0	0.07
LDV/LLDT	CVWXV02.0U5N	5	Tier 2	N	120	Y		0.070	1.0		1	2,692	2,692	0	0.07
LDV/LLDT	CVWXV02.5259	5	Tier 2	N	120	Y		0.070	1.0		1	4,358	4,358	0	0.07
LDV/LLDT	CVWXV02.5U35	3	Tier 2	N	120	Y		0.030	1.0		1	1,590	3,710	2,120	0.07
LDV/LLDT	CVWXV03.6U41	5	Tier 2	N	120	Y		0.070	1.0		1	197	197	0	0.07
LDV/LLDT	CVWXV03.6U46	5	Tier 2	N	120	Y		0.070	1.0		1	7	7	0	0.07
LDV/LLDT	CVWXV06.3UA8	5	Tier 2	N	120	Y		0.070	1.0		1	7	7	0	0.07
									1.0		1				
									1.0		1				
									1.0		1			

									1.0		1				
									1.0		1				
									1.0		1				

Evaporative Engine Family Name or Test Group	Tier 2 or Non-Tier 2	LDV/LLDT or HLDT/MDPV	Total Sales
CADXJ02.03UA	Tier 2	LDV/LLDT	Ex. 4 - CBI
CADXJ02.03UB	Tier 2	LDV/LLDT	
CADXT03.02UG	Tier 2	HLDT/MDPV	
CADXT03.03UG	Tier 2	HLDT/MDPV	
CADXT03.0TLF	Tier 2	HLDT/MDPV	
CADXT03.23UC	Tier 2	HLDT/MDPV	
CADXV02.03PA	Tier 2	LDV/LLDT	
CADXV02.53UK	Tier 2	LDV/LLDT	
CADXV03.03UF	Tier 2	LDV/LLDT	
CADXV04.2365	Tier 2	LDV/LLDT	
CADXV04.2375	Tier 2	LDV/LLDT	
CADXV04.23UH	Tier 2	LDV/LLDT	
CADXV05.2LR8	Tier 2	LDV/LLDT	
CBEXV06.0501	Tier 2	LDV/LLDT	
CBEXV06.84LA	Tier 2	LDV/LLDT	
CNLXV06.5L83	Tier 2	LDV/LLDT	
CVWXT03.0HEV	Tier 2	HLDT/MDPV	
CVWXT03.6U76	Tier 2	HLDT/MDPV	
CVWXV02.03PA	Tier 2	LDV/LLDT	
CVWXV02.03SA	Tier 2	LDV/LLDT	
CVWXV02.0U36	Tier 2	LDV/LLDT	
CVWXV02.0U4S	Tier 2	LDV/LLDT	
CVWXV02.0U5N	Tier 2	LDV/LLDT	
CVWXV02.5259	Tier 2	LDV/LLDT	
CVWXV02.5U35	Tier 2	LDV/LLDT	
CVWXV03.6U41	Tier 2	LDV/LLDT	
CVWXV03.6U46	Tier 2	LDV/LLDT	
CVWXV06.3UA8	Tier 2	LDV/LLDT	
0	Tier 2	0	0
0	Tier 2	0	0

Total Sales - Tier 2 LDV/LLDT Evap	
Total Sales - All LDV/LLDT Evap	
Phase-In % - Tier 2 LDV/LLDT Evap	

Total Sales - Tier 2 HLDT/MDPV Evap	
Total Sales - All HLDT/MDPV Evap	
Phase-In % - Tier 2 HLDT/MDPV Evap	

Ex. 4 - CBI

To: Wehrly, Linc[wehrly.linc@epa.gov]
From: Harris, Dale (EEO)
Sent: Wed 3/20/2013 6:58:22 PM
Subject: MY 2012 NOx Fleeta Average - VW
2012 Final Nox Fleet Average Report.pdf

Mr. Wehrly

Attached is the MY2012 NOx Fleet Average Report from VWGoA. Please let me know if there are any questions or concerns. Thanks!!!

Regards,

Dale Harris

Certification Specialist

VOLKSWAGEN Group of America, Inc.

Engineering and Environmental Office (EEO)
3800 Hamlin

AuburnHills Michigan 48326

United States of America

P: +1 248 754-4218

E: Dale.Harris@vw.com

VOLKSWAGEN

GROUP OF AMERICA

Mr. Linc Wehrly
Compliance and Innovative Strategies Division
Light-Duty Vehicle Group
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan

Leonard Kata	Name
Manager	Title
EEO	Department
248-754-4204	Phone
248-754-4207	Fax
Leonard.kata@vw.com	E-Mail

March 15, 2013 Date

Subject: NOx Fleet Average Report for the 2012 Model Year

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Dear Mr. Wehrly,

Please find attached the 2012 Volkswagen Group NOx Fleet Average report and completed EPA MS Excel spreadsheet. The 2012 Volkswagen Group fleet has a NOx fleet average credit of 2,389. The 2011 carryover NOx credit 7,462, resulting in a total of 9,851 NOx banked credits.

With regard to the EPA template spreadsheet, the total does not include the HLDT volume as we believe it should be included in model years after 2008, reference 86.1860-04 (f)(ii).

However, all the HLDT test groups are certified to the Tier 2 BIN 5, 0.07 g/mi NOx standard. This does not affect the earned NOx credits that are included on this sheet as all our credit earning BIN 3 models are in the LDV/LDT category.

We wish to bank the above total of 9,851 credits for future use.

Please contact me at (248) 754-4204, if you would like to discuss any aspects of this submission.

Sincerely,

Leonard Kata
Engineering and Environmental Office

Enclosure

Manufacturer Name	Model Year	INTERIM LDV/LLDT CREDITS			INTERIM HLDT/MDPV CREDITS		
		Interim LDV/LLDT Credits (Deficits) - Current MY	Interim LDV/LLDT Credit (Deficits) Carryover - Previous MYs	Total Interim LDV/LLDT Credits (Deficits)	Interim HLDT/MDPV Credits (Deficits) - Current MY	Interim HLDT/MDPV Credit (Deficits) Carryover - Previous MYs	Total Interim HLDT/MDPV Credits (Deficits)
VOLKSWAGEN GROUP	2012	0		0	0	0	0

TIER 2 LDV/LLDT CREDITS				TIER 2 HLDT/MDPV CREDITS - Early Banking			
Tier 2 LDV/LLDT Credits (Deficits) - Current MY	Tier 2 LDV/LLDT Credit (Deficit) Carryover - Previous MYs	Tier 2 LDV/LLDT Credits to be applied to Interim LDV/LLDT deficit, if applicable	Total Tier 2 LDV/LLDT Credits (Deficits)	Early Banking Credits - Tier 2 HLDT/MDPV - Current MY	Early Banking Carryover Credits - Tier 2 HLDT/MDPV - Previous MYs	Tier 2 HLDT/MDPV Credits to be applied to Interim HLDT/MDPV deficit, if applicable	Total Tier 2 HLDT/MDPV Early Banking Credits
2,389	7,462	0	9,851	0	0	0	0

Vehicle Type (LDV/LLDT, HLDT, or MDPV)	Engine Family Name or Test Group	Bin Number	Interim or Tier 2	Subject to Alternative Phase In Schedule? (Y/N)	Useful Life (1,000 mi.)	Subject to Intermediate Life Exhaust Stds? (Y/N)	Sales (# of Vehicles)	NOx Level (g/mi)	Low Bin Multiplier	Adjusted Sales (# of Vehicles)	Useful Life Adjustment Factor	Credits Used	Credits Allowed	Credit Balance	NOx Std for Avg Set
LDV/LLDT	CADXJ02.03UA	5	Tier 2	N	120	Y	Ex. 4 - CBI	0.070	1.0	43,440	1	3,041	3,041	0	0.07
LDV/LLDT	CADXJ02.03UB	5	Tier 2	N	120	Y		0.070	1.0	28,422	1	1,990	1,990	0	0.07
HLDT	CADXT03.02UG	5	Tier 2	N	120	Y		0.070	1.0	3,232	1	226	226	0	0.07
HLDT	CADXT03.03UG	5	Tier 2	N	120	Y		0.070	1.0	1,868	1	131	131	0	0.07
HLDT	CADXT03.0TLF	5	Tier 2	N	120	Y		0.070	1.0	2,792	1	195	195	0	0.07
HLDT	CADXT03.23UC	5	Tier 2	N	120	Y		0.070	1.0	6,072	1	425	425	0	0.07
LDV/LLDT	CADXV02.03PA	5	Tier 2	N	120	Y		0.070	1.0	4,392	1	307	307	0	0.07
LDV/LLDT	CADXV02.53UK	5	Tier 2	N	120	Y		0.070	1.0	222	1	16	16	0	0.07
LDV/LLDT	CADXV03.03UF	5	Tier 2	N	120	Y		0.070	1.0	15,833	1	1,108	1,108	0	0.07
LDV/LLDT	CADXV04.2365	5	Tier 2	N	120	Y		0.070	1.0	1,093	1	77	77	0	0.07
LDV/LLDT	CADXV04.2375	5	Tier 2	N	120	Y		0.070	1.0	163	1	11	11	0	0.07
LDV/LLDT	CADXV04.23UH	5	Tier 2	N	120	Y		0.070	1.0	2,213	1	155	155	0	0.07
LDV/LLDT	CADXV05.2LR8	5	Tier 2	N	120	Y		0.070	1.0	696	1	49	49	0	0.07
LDV/LLDT	CBEXV06.0501	5	Tier 2	N	120	Y		0.070	1.0	1,042	1	73	73	0	0.07
LDV/LLDT	CBEXV06.84LA	5	Tier 2	N	120	Y		0.070	1.0	118	1	8	8	0	0.07
LDV/LLDT	CNLXV06.5L83	5	Tier 2	N	120	Y		0.070	1.0	142	1	10	10	0	0.07
HLDT	CVWXT03.0HEV	5	Tier 2	N	120	Y		0.070	1.0	197	1	14	14	0	0.07
HLDT	CVWXT03.6U76	5	Tier 2	N	120	Y		0.070	1.0	2,444	1	171	171	0	0.07
LDV/LLDT	CVWXV02.03PA	5	Tier 2	N	120	Y		0.070	1.0	10,944	1	766	766	0	0.07
LDV/LLDT	CVWXV02.03SA	3	Tier 2	N	120	Y		0.030	1.0	6,713	1	201	470	269	0.07
LDV/LLDT	CVWXV02.0U36	5	Tier 2	N	120	Y		0.070	1.0	13,740	1	962	962	0	0.07
LDV/LLDT	CVWXV02.0U4S	5	Tier 2	N	120	Y		0.070	1.0	10,904	1	763	763	0	0.07
LDV/LLDT	CVWXV02.0U5N	5	Tier 2	N	120	Y		0.070	1.0	38,463	1	2,692	2,692	0	0.07
LDV/LLDT	CVWXV02.5259	5	Tier 2	N	120	Y		0.070	1.0	62,259	1	4,358	4,358	0	0.07
LDV/LLDT	CVWXV02.5U35	3	Tier 2	N	120	Y		0.030	1.0	53,002	1	1,590	3,710	2,120	0.07
LDV/LLDT	CVWXV03.6U41	5	Tier 2	N	120	Y		0.070	1.0	2,810	1	197	197	0	0.07
LDV/LLDT	CVWXV03.6U46	5	Tier 2	N	120	Y		0.070	1.0	97	1	7	7	0	0.07
LDV/LLDT	CVWXV06.3UA8	5	Tier 2	N	120	Y		0.070	1.0	101	1	7	7	0	0.07
									1.0		1				
									1.0		1				
									1.0		1			

									1.0		1				
									1.0		1				
									1.0		1				

Evaporative Engine Family Name or Test Group	Tier 2 or Non-Tier 2	LDV/LLDT or HLDT/MDPV	Total Sales
CADXJ02.03UA	Tier 2	LDV/LLDT	Ex. 4 - CBI
CADXJ02.03UB	Tier 2	LDV/LLDT	
CADXT03.02UG	Tier 2	HLDT/MDPV	
CADXT03.03UG	Tier 2	HLDT/MDPV	
CADXT03.0TLF	Tier 2	HLDT/MDPV	
CADXT03.23UC	Tier 2	HLDT/MDPV	
CADXV02.03PA	Tier 2	LDV/LLDT	
CADXV02.53UK	Tier 2	LDV/LLDT	
CADXV03.03UF	Tier 2	LDV/LLDT	
CADXV04.2365	Tier 2	LDV/LLDT	
CADXV04.2375	Tier 2	LDV/LLDT	
CADXV04.23UH	Tier 2	LDV/LLDT	
CADXV05.2LR8	Tier 2	LDV/LLDT	
CBEXV06.0501	Tier 2	LDV/LLDT	
CBEXV06.84LA	Tier 2	LDV/LLDT	
CNLXV06.5L83	Tier 2	LDV/LLDT	
CVWXT03.0HEV	Tier 2	HLDT/MDPV	
CVWXT03.6U76	Tier 2	HLDT/MDPV	
CVWXV02.03PA	Tier 2	LDV/LLDT	
CVWXV02.03SA	Tier 2	LDV/LLDT	
CVWXV02.0U36	Tier 2	LDV/LLDT	
CVWXV02.0U4S	Tier 2	LDV/LLDT	
CVWXV02.0U5N	Tier 2	LDV/LLDT	
CVWXV02.5259	Tier 2	LDV/LLDT	
CVWXV02.5U35	Tier 2	LDV/LLDT	
CVWXV03.6U41	Tier 2	LDV/LLDT	
CVWXV03.6U46	Tier 2	LDV/LLDT	
CVWXV06.3UA8	Tier 2	LDV/LLDT	
0	Tier 2	0	0
0	Tier 2	0	0

Total Sales - Tier 2 LDV/LLDT Evap		296,809
Total Sales - All LDV/LLDT Evap		296,809
Phase-In % - Tier 2 LDV/LLDT Evap		100.0%

Total Sales - Tier 2 HLDT/MDPV Evap		16,605
Total Sales - All HLDT/MDPV Evap		16,605
Phase-In % - Tier 2 HLDT/MDPV Evap		100.0%

To: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]
Cc: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Thur 3/21/2013 2:33:34 PM
Subject: 2012 Final CAFE reporting

Hi Bob;

Is there any chance you might be able to provide the file I requested back in early February? Sorry, I know you are busy, but this is the basis for the work we have to complete for the 2012 Final Volkswagen Group CAFE in Verify and it is extremely helpful. Maybe you can provide me with a projected date when you might get to it.

The 2012 Volkswagen Group brands again are Volkswagen, Audi, Bentley, Lamborghini and Bugatti.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
Cc: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Good, David
Sent: Thur 3/21/2013 3:19:28 PM
Subject: RE: Extension for 2012 CAFE and GHG Final Reporting

Richard,

Please provide some basis for your request. Why do you need the extension and why do you think you will be able to submit all the data to Verify and a GHG/CAFE model year report (letter) by June 1st?

Thanks

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Thursday, March 21, 2013 10:23 AM
To: Good, David
Cc: Kata, Leonard (EEO)
Subject: Extension for 2012 CAFE and GHG Final Reporting

Hello Dave;

We would like to request a two month reporting extension for the 2012 Final Volkswagen Group CAFE and GHG reports and its reporting deadline of the March 31st 2013, to the end of May 2013. The 2012 Volkswagen Group consists of the following brands: Volkswagen, Audi, Bentley, Lamborghini and Bugatti.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.

3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]
From: Mazaitis, Vincent
Sent: Thur 3/21/2013 3:30:16 PM
Subject: VW 361 40129
VW 361 40129_3-20-13.pdf

Hello Bill,

Please find enclosed the Laboratory Test Data for the Subject vehicle. If you have any questions or concerns, please contact me.

Thanks Bill,

Vince Mazaitis

Cert

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0078-001 Vehicle ID: VW 361 40129

Test Information

Test Date:	3/20/2013	MFR Name	VOLKSWAGEN
Key Start / Hot Soak:	12:54:00 / 09:38	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	2	Shift Schedule:	A09980005
Calculation Method:	Diesel	Beginning Odometer:	005817.0 MI
Pretest Remarks:		Drive Schedule:	ftp3bag
		Soak Period:	26.1 hours

Bag Data	THC / IntTHC	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	21.336 / 22.821	37.889	2.070	0.724	11.830	
Ambient	2.092	0.394	0.011	0.043	1.935	
Net Concentration	19.358 / 20.843	37.517	2.060	0.683	10.001	10.102
Remarks:						
Phase 2						
Sample	3.397 / 3.127	0.479	0.026	0.445	2.939	
Ambient	1.880	0.067	0.004	0.044	1.907	
Net Concentration	1.580 / 1.309	0.414	0.022	0.403	1.096	0.132
Remarks:						
Phase 3						
Sample	8.055 / 8.174	0.664	0.446	0.642	7.357	
Ambient	1.859	0.055	0.004	0.042	1.896	
Net Concentration	6.286 / 6.404	0.611	0.442	0.602	5.552	0.442
Remarks:						
Phase 4						
Sample						
Ambient						
Net Concentration						

Remarks: This test has particulate results.

Results	THC / IntTHC	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.270	0.981	0.080	280.4	0.150	0.131	36.185
Phase 2	- / 0.027	0.017	0.001	263.6	0.026	0.003	38.803
Phase 3	- / 0.083	0.016	0.017	246.5	0.083	0.006	41.458
						(NMOG=NMHC)	
Weighted	0.09274	0.21693	0.02205	262.379	0.06742	0.03014	

Fuel Economy	Diesel MPG
Phase 1	35.99
Phase 2	38.59
Phase 3	41.23
Weighted	38.74

Dyno Settings	
Dyno #:	D329 - FWD
Inertia:	3625
EPA Set Co A:	10.04
EPA Set Co B:	0.0619
EPA Set Co C:	0.02183
Emiss-Bench:	Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0078-001 Vehicle ID: VW 361 40129

Results		THC / IntTHC (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
	Phase 1	- / 0.965	3.507	0.287	1002.7	0.536	0.468	1.074
	Phase 2	- / 0.103	0.066	0.005	1009.0	0.100	0.010	
	Phase 3	- / 0.295	0.057	0.061	880.5	0.296	0.020	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.96	28.96	28.96	
Avg Cell Temp (degF)	74.02	74.27	73.95	
Dew Point (degF)	49.18	48.77	48.60	
Specific Humidity (grains/lbm)	53.65	52.84	52.50	
NOx Corr Factor	0.9088	0.9057	0.9044	
CO2 Dilution Factor	18.367	30.066	20.839	
CFV Vmix (scf @68F)	2830.28	4821.84	2819.26	
Total Vmix (scf@68F)	2834.87	4829.59	2823.87	
CVS Flow Rate Avg (scfm)	333.30	332.20	332.39	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	509.49	870.90	508.90	
Distance (miles)	3.576	3.828	3.571	
Bag Analysis Time (secs)	1004.5	248.6	136.0	

MFR Test Results for Procedure 2 CVS 75 and later (w/o can. load)

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10023696	0.0591	0.114	0.0148	279	0	0.0144

Odometer	MPG
5731 M	36.4

MPG is -6.05 % lower than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 19 Cert Diesel 7-15 ppm Sulfur

NVFEL Laboratory Test Data — PARTICULATE

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0078-001 — Vehicle ID: VW 361 40129

Test Information

Test Date:	3/20/2013	MFR Name	VOLKSWAGEN
Key Start:	12:54:00 / 09:38	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	2	Shift Schedule:	A09980005
Calculation Method:	Diesel	Beginning Odometer:	005817.0 MI
Pretest Remarks:		Drive Schedule:	ftp3bag
		Soak Period:	26.1 hours

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	448633	147.4105	147.4176	0.00715	3.067	0.858	
	C	448634	145.2507	145.2556	0.00494	2.132	0.596	
Remarks:						Exclude A		
Phase 2								
	B	448635	146.1162	146.1219	0.00564	2.450	0.640	
	C	448636	145.4835	145.4912	0.00765	3.291	0.860	
Remarks:						Exclude A		
Phase 3								
	B	448637	146.8749	146.8797	0.00484	2.083	0.583	
	C	448638	143.3149	143.3195	0.00454	1.956	0.548	
Remarks:								
Phase 4								
Remarks:	This test has particulate results.							

Average Results	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.00605	2.600	0.727
Phase 2	0.00665	2.871	0.750
Phase 3	0.00469	2.019	0.565

All filter weights are corrected for buoyancy.

Weighted All Filters: 0.69437

Reference Filter Stability Check	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check	
2% of Avg Net or 0.01 mg					PASS/FAIL	Dyno #: D329 - FWD
0.01	1	145.20722	145.20535	-0.00187	PASS	Inertia: 3625
	2	144.64129	144.63982	-0.00147	PASS	EPA Set Co A: 10.04
						EPA Set Co B: 0.0619
						EPA Set Co C: 0.02183

Emissions Bench: Mexa 7200dle

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0078-001 Vehicle ID: VW 361 40129

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	3/19/13 14:43	1.0011053	022298	71.7	49.4	28.86	NORM @ 03/15/13 17:29:25
Post-test	3/21/13 7:56	1.0011062	022298	71.9	49.4	28.89	NORM @ 03/15/13 17:29:25

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.96	28.96	28.96	
Avg Cell Temp (degF)	74.02	74.27	73.95	
Dew Point (degF)	49.18	48.77	48.60	
Specific Humidity (grains/lbm)	53.65	52.84	52.50	
NOx Corr Factor	0.9088	0.9057	0.9044	
Dilution Factor	18.37	30.07	20.84	
CFV Vmix (scf @68F)	2830.28	4821.84	2819.26	
Sample Volume A (scf @68F)	-8.585	-14.593	-8.515	
Sample Volume B (scf @68F)	6.606	11.128	6.568	
Sample Volume C (scf @68F)	6.572	11.220	6.556	
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	1.531	2.585	1.537	
Total Vmix (scf @68F)	2834.87	4829.59	2823.87	
Phase Time (sec)	509.49	870.90	508.90	
Distance (miles)	3.576	3.828	3.571	
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.4	42.8	42.3	
PSU Dil Air B (degC)	40.1	38.7	39.5	
PSU Dil Air C (degC)	41.7	41.2	41.2	
PSU Filter A (degC)	48.1	49.9	49.5	
PSU Filter B (degC)	45.1	45.2	45.5	
PSU Filter C (degC)	46.0	46.6	46.8	
PSU Dil Flow A (lpm)	30.0	30.0	29.9	
PSU Dil Flow B (lpm)	30.0	29.9	29.9	
PSU Dil Flow C (lpm)	29.9	29.8	29.8	
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

Cert

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0078-002 Vehicle ID: VW 361 40129

Test Information

Test Date:	3/20/2013	MFR Name	VOLKSWAGEN
Key Start:	14:43:17	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	3	Shift Schedule:	A09980011
Calculation Method:	Diesel	Beginning Odometer:	005827.0 MI
Pretest Remarks:		Drive Schedule:	hwfet_hwfet

Bag Data	THC / IntTHC	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	8.122 / 8.053	0.774	0.226	0.927	7.364	
Ambient	2.178	0.069	0.007	0.045	1.949	
Net Concentration	6.095 / 6.026	0.710	0.219	0.885	5.549	0.066

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks: This test has particulate results.

Results	THC / IntTHC	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	- / 0.041	0.010	0.004	189.4	0.043	0.000	53.985

(NMOG=NMHC)

Fuel Economy	Diesel MPG	Coastdwn secs:	17.97	Dyno Settings	Dyno #: D329 - FWD
Phase 1	53.69		17.98		Inertia: 3625
			17.97		EPA Set Co A: 10.04
					EPA Set Co B: 0.0619
					EPA Set Co C: 0.02183
			17.97		Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0078-002 Vehicle ID: VW 361 40129

Results	THC / IntTHC (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	- / 0.415	0.099	0.045	1934.7	0.442	0.005	1.074

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.94			
Avg Cell Temp (degF)	74.31			
Dew Point (degF)	48.61			
Specific Humidity (grains/lbm)	52.54			
NOx Corr Factor	0.9045			
CO2 Dilution Factor	14.449			
CFV Vmix (scf @68F)	4197.48			
Total Vmix (scf@68F)	4219.80			
CVS Flow Rate Avg (scfm)	329.17			

Fan Placement: One Fan - Up - Front

Phase Time (secs) 765.11

Distance (miles) 10.215

Bag Analysis Time (secs)

MFR Test Results for Procedure 3 HWFE

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10023697	0.0574	0.007	0.0024	196	0	0.0082

Odometer	MPG
5743 M	51.9

MPG is -3.33 % lower than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 19 Cert Diesel 7-15 ppm Sulfur

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0078-002 Vehicle ID: VW 361 40129

Test Information

Test Date:	3/20/2013	MFR Name	VOLKSWAGEN
Key Start:	14:43:17	MFR Codes:	590 VWX
Fuel Container ID:	F00022	Config #:	00
Fuel Type:	19 Cert Diesel 7-15 ppm Sulfur	Transmission:	AUTO
Test Procedure:	3	Shift Schedule:	A09980011
Calculation Method:	Diesel	Beginning Odometer:	005827.0 MI
Pretest Remarks:		Drive Schedule:	hwfet_hwfet

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1								
	B	448631	141.9242	141.9354	0.01118	4.212	0.412	
	C	448632	142.4426	142.4542	0.01158	4.394	0.430	

Remarks:

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.01138	4.303	0.421

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL
0.01	1	145.20599	145.20637	0.00038	PASS
	2	144.63746	144.64044	0.00298	PASS

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 10.04
EPA Set Co B: 0.0619
EPA Set Co C: 0.02183

Emissions Bench Mexa 7200dle

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0078-002 Vehicle ID: VW 361 40129

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	3/19/13 11:05	1.0011030	022298	71.8	49.3	28.80	NORM @ 03/15/13 17:29:25
Post-test	3/21/13 8:17	1.0011063	022298	71.8	49.5	28.89	NORM @ 03/15/13 17:29:25

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.94			
Avg Cell Temp (degF)	74.31			
Dew Point (degF)	48.61			
Specific Humidity (grains/lbm)	52.54			
NOx Corr Factor	0.9045			
Dilution Factor	14.45			
CFV Vmix (scf @68F)	4197.48			
Sample Volume A (scf @68F)				
Sample Volume B (scf @68F)	11.202			
Sample Volume C (scf @68F)	11.123			
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	7.442			
Total Vmix (scf @68F)	4219.80			
Phase Time (sec)	765.11			
Distance (miles)	10.215			
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	44.5			
PSU Dil Air B (degC)	38.9			
PSU Dil Air C (degC)	40.8			
PSU Filter A (degC)	48.3			
PSU Filter B (degC)	47.5			
PSU Filter C (degC)	46.9			
PSU Dil Flow A (lpm)	0.0			
PSU Dil Flow B (lpm)	29.9			
PSU Dil Flow C (lpm)	29.9			
PSU A Proportionality				
PSU B Proportionality				
PSU C Proportionality				

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Fri 3/22/2013 7:52:20 PM
Subject: RE: re: 2014 FE Guide - Errors in EPA's data base as of March 18, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2014 FEGuide-all rel dates-no-sales-3-18-2013.xlsx

Richard,

RE: re: 2014 FE Guide - Errors in EPA's data base as of March 18, 2013 which held up posting on www.fueleconomy.gov

Attached are the data in Verify as of March 18, 2013. Labels with pea green fill in the first few columns were not sent to DOE on March 18, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2014 FE Label data will be on April 1, 2013 or so (on a monthly schedule where I run the query on the 1st of the month). If you need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Good, David[good.david@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Mon 3/25/2013 10:49:49 AM
Subject: RE: re: 2014 FE Guide - Errors in EPA's data base as of March 18, 2013 which held up posting on www.fueleconomy.gov

Hi Dave;

I corrected Audi index #001.

I did four 2014 Bentley label indexes #010-013 last week, but did not see these on this last audit report. Could you please run a report to include the Bentley models?

Thanks,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Friday, March 22, 2013 3:52 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: RE: re: 2014 FE Guide - Errors in EPA's data base as of March 18, 2013 which held up posting on www.fueleconomy.gov

Richard,

RE: re: 2014 FE Guide - Errors in EPA's data base as of March 18, 2013 which held up posting on www.fueleconomy.gov

Attached are the data in Verify as of March 18, 2013. Labels with pea green fill in the first few columns were not sent to DOE on March 18, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2014 FE Label data will be on April 1, 2013 or so (on a monthly schedule where I run the query on the 1st of the month). If you need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

From: Kata, Leonard (EEO)
Location: Telephone Conference
Importance: Normal
Subject: Compliance Options N2O and CH4
Start Date/Time: Tue 3/26/2013 6:00:00 PM
End Date/Time: Tue 3/26/2013 6:30:00 PM

Hello Rob:

I got your note about availability. Would it be possible to speak with you from a regulatory perspective around 2:00 p.m. today? We could follow-up with Jim later.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

Join by Phone
+1 (248) 754-6400, local
+1 (855) 858-8080, toll-free
Find a local number

Conference ID: 455450

To: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]
Cc: Good, David[good.david@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Tue 3/26/2013 5:39:34 PM
Subject: RE: Passenger Vehicle CAFE Starter

Thank you very much Bob. These files were exactly what I needed.

The issue with the Tiguan listed as truck in the labeling program goes back to the regulation change in, I think 2012, that would exclude the two rows of seating models from being called trucks unless they had three rows of seating and had expanded cargo carrying capacity. Although the Tiguan has two rows of seating it was the same car certified earlier, since 2009, as a truck and I was instructed to leave it in the guide as a truck. The only model that is still a truck by virtue of its off-road capability is the all-wheel-drive Tiguan 4Motion. Should I change these two label indexes (ADX083 and ADX084) so they are now passenger car indexes?

I have another off the wall question. For the first time I have a domestic CAFE fleet, that was

Ex. 4 - CBI

Thanks again for your support,

Richard

From: Peavyhouse, Robert [mailto:Peavyhouse.Robert@epa.gov]
Sent: Monday, March 25, 2013 5:23 PM
To: Thomas, Richard (EEO)
Subject: Passenger Vehicle CAFE Starter

Richard,

Here is a starter file for Passenger Vehicle.

There are 2 discrepancies. I setup the file as you suggested.

I couldn't remember which 2 you said were Domestic, so you will have to switch those. I set them all to Import for now.

Ex. 4 - CBI

You said to put them in the passenger vehicle, but the guzzler status says that they are trucks.

Take a look at those 2, you might have to fix those, or switch them to the truck submission.

Robert Peavyhouse
Compliance Division
U.S. EPA - Office of Transportation and Air Quality
phone: (734) 214-4814
email: peavyhouse.robert@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]
From: Rodgers, William (EEO)
Sent: Tue 3/26/2013 7:12:47 PM
Subject: RE: beetle test data

Thanks for the update. We would like to pick up the vehicle soon to avoid issues with holiday time off schedules. Please let me know once it's been released.

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, March 26, 2013 3:08 PM
To: Rodgers, William (EEO)
Subject: beetle test data

Bill, There was an error code when they resubmitted the test data. I talked to Christi and emailed the lab what to do to avoid the error when they re-submit but I haven't heard back yet.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Good, David[good.david@epa.gov]
Cc: Kata, Leonard (EEO)[Leonard.Kata@vw.com]; Harris, Dale (EEO)[Dale.Harris@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Thomas, Richard (EEO)
Sent: Wed 3/27/2013 2:49:33 PM
Subject: couple more questions

Hello Dave;

I sensed you had a lot on your plate today when you called, but I had a couple more questions for you and when you get a free moment maybe you can respond. You can call me anytime.

The EEO is working on the final 2012 reports for both CAFE and GHG. As in the past I am preparing to enter all the required model type data, test numbers and configuration data in Verify before we send a final letter with our CAFE fleet averages and reformed CAFE standards. My colleagues are preparing the GHG reports and will be submitting them via the templates provided by EPA as in the past. The Verify system for CAFE has data entry for the GHG

Ex. 4 - CBI

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Harris, Dale (EEO)[Dale.Harris@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]
From: French, Roberts
Sent: Wed 3/27/2013 3:16:49 PM
Subject: RE: Compliance Options N2O and CH4

Sounds good. Jim and I will call at 11:30, though I will warn you that we only have about 30 minutes, so hopefully the questions are targeted enough so we can at least end with an understanding of next steps, if any are needed.

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Wednesday, March 27, 2013 8:53 AM
To: French, Roberts
Cc: Snyder, Jim; Harris, Dale (EEO); Giles, Michael (EEO)
Subject: RE: Compliance Options N2O and CH4

Hi Rob:

No problem, 11:30 a.m. would be fine. Perhaps Jim Snyder could join if available. If you would call the following number, that would be great. (248) 754-4230.

Thanks,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: French, Roberts [mailto:french.roberts@epa.gov]
Sent: Wednesday, March 27, 2013 8:15 AM
To: Kata, Leonard (EEO)
Subject: RE: Compliance Options N2O and CH4

Len,

My apologies. I got sucked into a number of other things yesterday afternoon and didn't see your email until late in the day. I can give you a call around 11:30 this morning if that works. Otherwise it will have to be after 2:30. Let me know what works for you.

Rob

-----Original Appointment-----
From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Tuesday, March 26, 2013 11:01 AM
To: Snyder, Jim; French, Roberts; Giles, Michael (EEO); Harris, Dale (EEO)
Subject: Compliance Options N2O and CH4
When: Tuesday, March 26, 2013 2:00 PM-2:30 PM (GMT-05:00) Eastern Time (US & Canada).
Where: Telephone Conference

Hello Rob:

I got your note about availability. Would it be possible to speak with you from a regulatory perspective around 2:00 p.m. today? We could follow-up with Jim later.

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

.....

Join by Phone

+1 (248) 754-6400, local

+1 (855) 858-8080, toll-free

Find a local number

Conference ID: Non-Responsive

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 3/27/2013 4:44:35 PM
Subject: FW: Extension for 2012 CAFE Final Reporting

From: Thomas, Richard (EEO)
Sent: Thursday, March 21, 2013 11:47 AM
To: 'Good, David'
Cc: Kata, Leonard (EEO); Peavyhouse, Robert (Peavyhouse.Robert@epa.gov)
Subject: RE: Extension for 2012 CAFE Final Reporting

Hi Dave,

The basis for the extension in the CAFE reporting is; I had no file to start the work in Verify with and because of the complicated way we certify and input the Volkswagen Group brands in Verify for the labeling program it will take much time, intervention and input from Bob Peavyhouse to get the system to accept our report. This is the reason we will be consolidating the brands in 2015 model year under one manufacture code for the Volkswagen Group to reduce duplication of carline names/codes and test groups under several brands.

I can request a one month extension now for the CAFE, but I will have to see if processing in Verify goes better this year than it did last year before I will know if they are successfully accepted into Verify. Bob is working on the needed file today. The GHG reports and templates will be completed and submitted by the end of this month.

Best regards,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Thursday, March 21, 2013 11:19 AM
To: Thomas, Richard (EEO)
Cc: Kata, Leonard (EEO)
Subject: RE: Extension for 2012 CAFE and GHG Final Reporting

Richard,

Please provide some basis for your request. Why do you need the extension and why do you think you will be able to submit all the data to Verify and a GHG/CAFE model year report (letter) by June 1st?

Thanks

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Thursday, March 21, 2013 10:23 AM
To: Good, David
Cc: Kata, Leonard (EEO)
Subject: Extension for 2012 CAFE and GHG Final Reporting

Hello Dave;

We would like to request a two month reporting extension for the 2012 Final Volkswagen Group CAFE and GHG reports and its reporting deadline of the March 31st 2013, to the end of May 2013. The 2012 Volkswagen Group consists of the following brands: Volkswagen, Audi, Bentley, Lamborghini and Bugatti.

Best regards,

Richard

Richard E. Thomas

VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: mike.hennard@vw.com[mike.hennard@vw.com]
Cc: Stuart.Johnson@vw.com[Stuart.Johnson@vw.com]
From: Ball, Joel
Sent: Thur 3/28/2013 9:06:02 PM
Subject: FW: Your EPA Inquiry - EPA-2010 recall report 2; ODI RESUME 2-17-2012; NHTSA Action Number: PE10027; EPA420-B-09-016 APRIL 2009

Hi Mike,

I received the following inquiry from an individual who apparently still has a gen-1 coil in her vehicle and was told that she would need to pay a diagnostic charge before it could be replaced. I was under the impression that all gen-1 coils were being replaced on all vehicles under the latest campaign (although I did not see this engine on the last bulletin we received). Please let me know if this is not the case. If this vehicle is covered under the recall I don't think any diagnostic charge should apply.

Thanks,

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

Recipient
otaq@epa.gov
UserWord
apple
Word
apple
comments
''ALSO VEHICLE-RECALLS@EPA.GOV NOT WORKING' 3/12/13 Could you pass it down the line. thanx

Concerning:
University Volkswagen Mazda,
5150 Ellison st NE,
Albuquerque, NM 87109

1-505-761-1900

In October 2009 Volkswagen address emissions problems by issuing EPA emissions service action 28F3 That replaced all

(O.E.M) GEN I COP COIL. My Vin Ex. 6 has an (OEM-GEN I) and they wont replace it. Unless I PAY to diagnose

it. What can I do. Already had 26E5/R5 recalls with heat shield / fuel tank replaced. Also, recent recalls J1-28F2 P1-28F3 are of

much concern. They said no recall, should i ask for "VCS" designation or technical service bulletins, please help. I feel that they

are causing me to violate the (CAA). MY 2003 V6 2.8L GLX. I HAVE A FULL (internal use only) SERVICE HISTORY, and if I may

add what's aggravating is that they had it after the 2008 recalls in-house & couldn't just fix it then, they had they correct parts!

Thank you.

Ex. 6

Ex. 6

name

Ex. 6

org
USA
ssubject
CONCERNING: EPA-2010 recall report 2; ODI RESUME 2-17-2012; NHTSA Action Number: PE10027; EPA420-B-09-016 APRIL 2009

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Submitting host: 66-87-97-189.pools.spcsdns.net (66.87.97.189)
Browser: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:16.0) Gecko/20100101 Firefox/16.0
Referred: http://www.epa.gov/otaq/oms-cmt.htm
TSSMS: orcdizux
Mail to File: omsmail.txt

To: Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Glas, Tobias
Sent: Thur 4/4/2013 3:15:01 PM
Subject: RE: Hello

Hi Lynn !

I have a few questions about submitting CREE values for My 12. Should we handle that via Email or should I come over next week to meet you?

Let me know what is more convenient for you !

Thanks for your help !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:07 PM
To: Glas, Tobias
Subject: Hello!

Hi, Tobias.

I look forward to working with you in EPA's in-use program. Please feel free to call me if you have any questions.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Giles, Michael (EEO)[michael.giles@vw.com]; Snyder, Jim[Snyder.Jim@epa.gov]; Haynes, Ben[haynes.ben@epa.gov]
Cc: Rhodes, Brian (EEO)[Brian.Rhodes@vw.com]; Rodgers, William (EEO)[William.Rodgers@vw.com]; Schlueter, Hannah (EASZ/1)[hannah.schlueter@volkswagen.de]
From: Mazaitis, Vincent
Sent: Fri 4/5/2013 12:59:16 PM
Subject: RE: VW Group - Vehicle delivery Monday 4/8

Thanks for the "heads-up!"

Have a nice weekend.

Vince Mazaitis

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Friday, April 05, 2013 8:34 AM
To: Snyder, Jim; Mazaitis, Vincent; Haynes, Ben
Cc: Rhodes, Brian (EEO); Rodgers, William (EEO); Schlueter, Hannah (EASZ/1)
Subject: VW Group - Vehicle delivery Monday 4/8

Hello Jim, Ben and Vince,

Just a reminder, we are planning to deliver a Beetle for confirmatory testing Monday around 10 to 10:30 am.

Regards,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Glas, Tobias[Tobias.Glas@vw.com]
From: Sohacki, Lynn
Sent: Fri 4/5/2013 2:10:00 PM
Subject: RE: Hello

Hi, Tobias.

Thanks for your message. I'm checking about the best way to handle CREE values and will get back to you as soon as I determine the best course of action.

I hope you have a good weekend!

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Thursday, April 04, 2013 11:15 AM
To: Sohacki, Lynn
Subject: RE: Hello

Hi Lynn !

I have a few questions about submitting CREE values for My 12. Should we handle that via Email or should I come over next week to meet you?

Let me know what is more convenient for you !

Thanks for your help !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:07 PM
To: Glas, Tobias
Subject: Hello!

Hi, Tobias.

I look forward to working with you in EPA's in-use program. Please feel free to call me if you have any questions.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Fri 4/5/2013 5:51:01 PM
Subject: RE: re: 2014 FE Guide - Errors in EPA's data base as of April 2, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2014 FEGuide-all rel dates-no-sales-4-2-2013.xlsx

Richard,

RE: re: 2014 FE Guide - Errors in EPA's data base as of April 2, 2013 which held up posting on www.fueleconomy.gov

Attached are the data in Verify as of April 2, 2013. Labels with pea green fill in the first few columns were not sent to DOE on April 5, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

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Please make any needed corrections when you get a chance.

Thanks

To: Good, David[good.david@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Mon 4/8/2013 12:06:02 PM
Subject: RE: re: 2014 FE Guide - Errors in EPA's data base as of April 2, 2013 which held up posting on www.fueleconomy.gov

Hi Dave;

I have corrected the 5 year spending value typo in Bentley indexes 10, 11 and 12. These should be good to go now.

Thanks,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Friday, April 05, 2013 1:51 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: RE: re: 2014 FE Guide - Errors in EPA's data base as of April 2, 2013 which held up posting on www.fueleconomy.gov

Richard,

RE: re: 2014 FE Guide - Errors in EPA's data base as of April 2, 2013 which held up posting on www.fueleconomy.gov

Attached are the data in Verify as of April 2, 2013. Labels with pea green fill in the first few columns were not sent to DOE on April 5, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2014 FE Label data will be on April 15, 2013 or so (on a monthly schedule

where I run the query on the 1st and 15th of the month). If you need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Giles, Michael (EEO)[michael.giles@vw.com]; Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Danzeisen, Karen
Sent: Tue 4/9/2013 2:14:45 PM
Subject: RE: Request to reprocess testgroups associated with reprocessed EPA tests

Thanks for the quick follow-up Mike.

Karen

Karen E. Danzeisen
Information Technology Specialist
Office of Transportation and Air Quality
U.S. Environmental Protection Agency
(734)214-4444 danzeisen.karen@epa.gov

www.epa.gov/nvfel/

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Monday, April 08, 2013 10:54 AM
To: Danzeisen, Karen; Rodgers, William (EEO)
Cc: Snyder, Jim
Subject: RE: Request to reprocess testgroups associated with reprocessed EPA tests

Hello Karen,

These data sets have been re-processed per your request. It looks like the CSI's are good.

Thanks,

Mike

From: Danzeisen, Karen [mailto:Danzeisen.Karen@epa.gov]
Sent: Thursday, April 04, 2013 1:47 PM

To: Giles, Michael (EEO); Rodgers, William (EEO)
Cc: Snyder, Jim
Subject: Request to reprocess testgroups associated with reprocessed EPA tests

Hello,

At some point in the recent past we reprocessed some of your EPA tests so that they included CREE/OPT-CREE default values. In the Verify database these actions inactivated the old test result records and created new test result records for those tests. Consequently, any Testgroup(s) that use those tests lost their connection between the related emission standards and the test results. As a result there are no longer any cert levels in the CSI's for the Testgroup(s) which use those tests. If you were to generate a CSI report for any of the affected Testgroups (see below), in the Certification Level section you would see the Verify Test Number referenced but with no cert levels.

Fortunately, the remedy for this problem is for you (or someone on your staff) to do the following at your/their earliest convenience:

1. Unlock the Testgroup(s) in Certificate Request (if locked)
2. Find the most recent submission for each Testgroup listed below.
3. Change the Process Code for each to 'C' (Correction) (If it's not a 'C' already)
4. Send the submissions to Verify for processing
5. Lock the Testgroups in Certificate Request

MFR_NM	MFR_CD	MODEL_YEAR	Testgroup To Be Reprocessed	Test Number Missing Cert Level in CSI
Ex. 4 - CBI				

Volkswagen Ex. 4 - CBI

Many thanks,

Karen

Karen E. Danzeisen
Information Technology Specialist
Office of Transportation and Air Quality
U.S. Environmental Protection Agency
(734)214-4444 danzeisen.karen@epa.gov

www.epa.gov/nvfel/

To: Charmley, William[charmley.william@epa.gov]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Nevers, Chris[nevers.chris@epa.gov]
From: Johnson, Stuart (EEO)
Sent: Tue 4/9/2013 5:50:22 PM
Subject: Current VW SCR capacities

Hello Bill,

Last week you asked me for the capacities of the DEF tank on the VW models that currently use SCR.

VW Passat: 18.5 liters

VW Touareg: 20 liters

Audi Q7: 24 liters split into two tanks

The Passat and Touareg have the tank it the spare tire well. Ex. 4 - CBI

Ex. 4 - CBI

The Audi Q7 already splits the DEF storage into two tanks Ex. 4 - CBI

Ex. 4 - CBI One tank is under floor and the other is in the right rear fender well. The under floor

Ex. 4 - CBI

Ex. 4 - CBI

Let me know if you have any questions,

Best Regards,

Stuart

To: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]
Cc: Good, David[good.david@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Thur 4/11/2013 2:17:08 PM
Subject: 2012 Volkswgen Group Final CAFE Reports
LDT 2012 Verify report.pdf

Hi Bob;

I have successfully entered the Volkswagen Group (VWGoA) 2012 Light-Duty Truck CAFE into Verify earlier this week. Will you be running an audit of this report or was that already performed by the attached Verify report I received a short time after I entered the report?

I have a couple of issues with regard to the Passenger Car, Import and Domestic fleet reports. My understanding is we need only create one file with both the Import and Domestic category reports, is that correct?

Ex. 4 - CBI

get a large discrepancy for the carline 160 footprint data I submitted.

Ex. 4 - CBI

later. Can I just add them into the CAFE report or does a 2012 label have to exist in the system first?

VWGoA has been granted an extension for the CAFE and GHG reports to the end of this month, so your prompt reply would be appreciated. I can assume that we will have many exchanges due to the number of brands we have in the VWGoA Passenger Car reports. Again, thanks for your support.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Snyder, Jim[Snyder.Jim@epa.gov]
From: Mazaitis, Vincent
Sent: Thur 4/11/2013 4:44:45 PM
Subject: RE: Test results for VID VW324-30108
VW324 30108_4-10-13.pdf

Hello Bill,

Please find enclosed the Laboratory Test Data for the Subject vehicle. Sorry for the delay!

Best regards,

Vince Mazaitis

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Thursday, April 11, 2013 8:14 AM
To: Snyder, Jim
Cc: Mazaitis, Vincent; Giles, Michael (EEO)
Subject: Test results for VID VW324-30108

Hello Jim,

Can you send us the lab result sheets for yesterday's confirmatory testing. Thanks

Bill Rodgers

VWGoA EEO

(248) 754-4219

CERT

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0130-001 Vehicle ID: VW324 30108

Test Information

Test Date: 4/10/2013
Key Start / Hot Soak: 14:15:22 / 09:39
Fuel Container ID: F00023
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 21 Federal fuel 2-day exhaust (w/can loa
Calculation Method: Gasoline
Pretest Remarks:

MFR Name VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: AUTO
Shift Schedule: A09980005
Beginning Odometer: 005098.0 MI
Drive Schedule: ftp3bag
Soak Period: 27.3 hours

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	8.707	25.117	0.423	0.834	2.742	
Ambient	3.373	0.000	0.014	0.044	1.997	
Net Concentration	5.545	25.117	0.409	0.793	0.870	4.524

Remarks:

Phase 2						
Sample	3.312	0.394	0.091	0.544	1.982	
Ambient	3.248	0.000	0.017	0.044	1.995	
Net Concentration	0.196	0.394	0.076	0.502	0.069	0.115

Remarks:

Phase 3						
Sample	3.336	2.415	0.114	0.744	2.137	
Ambient	3.103	0.000	0.017	0.044	1.995	
Net Concentration	0.405	2.415	0.098	0.703	0.253	0.108

Remarks:

Phase 4						
Sample						
Ambient						
Net Concentration						

Remarks:

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.069	0.632	0.015	313.6	0.013	0.056 / 0.059	28.426
Phase 2	0.004	0.016	0.005	317.6	0.002	0.002 / 0.002	28.173
Phase 3	0.005	0.061	0.004	278.4	0.004	0.001 / 0.001	32.125
						(NMOG=1.04xNMHC)	
Weighted	0.01777	0.15626	0.00660	305.947	0.00443	0.0133 / 0.0138	

Fuel Economy	Gasoline MPG
Phase 1	28.36
Phase 2	28.11
Phase 3	32.05
Weighted	29.14

Dyno Settings
Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 15.57
EPA Set Co B: -0.0197
EPA Set Co C: 0.02295
Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0130-001 Vehicle ID: VW324 30108

Results

	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.248	2.271	0.056	1127.2	0.045	0.203	1.173
Phase 2	0.015	0.061	0.018	1220.5	0.006	0.009	
Phase 3	0.018	0.219	0.013	1000.4	0.013	0.005	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.94	28.94	28.92	
Avg Cell Temp (degF)	73.94	74.00	74.14	
Dew Point (degF)	49.71	49.80	49.93	
Specific Humidity (grains/lbm)	54.78	54.97	55.27	
NOx Corr Factor	0.9132	0.9140	0.9151	
CO2 Dilution Factor	15.998	24.606	17.995	
CFV Vmix (scf @68F)	2742.66	4692.58	2748.03	
CVS Flow Rate Avg (scfm)	323.94	323.48	324.57	

Fan Placement: One Fan - Down - Front

Phase Time (secs)	508.01	870.39	508.00
Distance (miles)	3.595	3.843	3.593
Bag Analysis Time (secs)	143.8	153.7	155.6

MFR Test Results for Procedure 21 Federal fuel 2-day exhaust (w/can load)

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10024217	0.0183	0.162	0.0087	314	0	0.0138

Odometer	MPG	PM
4744 M	28.5	0.002

MPG is -2.21 % lower than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

CERT

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0130-002 Vehicle ID: VW324 30108

Test Information

Test Date:	4/10/2013	MFR Name	VOLKSWAGEN
Key Start:	15:50:46	MFR Codes:	590 VWX
Fuel Container ID:	F00023	Config #:	00
Fuel Type:	61 Tier 2 Cert Test Fuel	Transmission:	AUTO
Test Procedure:	3	Shift Schedule:	A09980011
Calculation Method:	Gasoline	Beginning Odometer:	005109.0 MI
Pretest Remarks:		Drive Schedule:	hwfet_hwfet

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	3.030	5.551	0.101	1.397	1.881	
Ambient	3.107	0.000	0.025	0.045	2.013	
Net Concentration	0.246	5.551	0.079	1.357	0.078	0.155

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.001	0.054	0.001	208.6	0.000	0.001 / 0.001	42.867

(NMOG=1.04xNMHC)

Fuel Economy	Gasoline MPG
Phase 1	42.77

Dyno Settings

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 15.57
EPA Set Co B: -0.0197
EPA Set Co C: 0.02295

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0130-002 Vehicle ID: VW324 30108

Results

	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.012	0.557	0.012	2138.5	0.004	0.008	1.173

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.97			
Avg Cell Temp (degF)	74.46			
Dew Point (degF)	49.42			
Specific Humidity (grains/lbm)	54.13			
NOx Corr Factor	0.9107			
CO2 Dilution Factor	9.585			
CFV Vmix (scf @68F)	3041.99			
CVS Flow Rate Avg (scfm)	238.56			

Fan Placement: One Fan - Down - Front

Phase Time (secs) 765.10

Distance (miles) 10.250

Bag Analysis Time (secs)

MFR Test Results for Procedure 3 HWFE

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10024218	0.005	0.104	0.0013	219	0	0.0029

Odometer	MPG	PM
4755 M	40.8	0.001

MPG is -4.60 % lower than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

Cert

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0130-003 Vehicle ID: VW324 30108

Test Information

Test Date:	4/11/2013	MFR Name	VOLKSWAGEN
Key Start:	06:24:11	MFR Codes:	590 VWX
Fuel Container ID:	F00023	Config #:	00
Fuel Type:	61 Tier 2 Cert Test Fuel	Transmission:	AUTO
Test Procedure:	89 us062bag (us06warmup_2bagus06)	Shift Schedule:	A09980041
Calculation Method:	Gasoline	Beginning Odometer:	005129.0 MI
Pretest Remarks:		Drive Schedule:	us06warmup_2bagus06

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	4.000	8.964	0.763	0.886	2.267	
Ambient	2.883	0.000	0.029	0.047	1.961	
Net Concentration	1.308	8.964	0.736	0.842	0.436	0.797

Remarks:

Phase 2						
Sample	4.236	6.732	0.657	1.196	2.133	
Ambient	2.914	0.000	0.023	0.047	1.961	
Net Concentration	1.582	6.732	0.637	1.153	0.347	1.175

Remarks:

Phase 3						
Sample						
Ambient						
Net Concentration						

Remarks:

Phase 4						
Sample						
Ambient						
Net Concentration						

Remarks:

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.023	0.311	0.038	459.6	0.009	0.014 / 0.014	19.445
Phase 2	0.012	0.102	0.014	273.3	0.003	0.009 / 0.009	32.718
						(NMOG=1.04xNMHC)	
Composite	0.01417	0.14767	0.01957	314.245	0.00425	0.0099 / 0.0103	

Fuel Economy	Gasoline MPG	Dyno Settings	
Phase 1	19.40		Dyno #: D329 - FWD
Phase 2	32.64		Inertia: 3625
			EPA Set Co A: 15.57
			EPA Set Co B: -0.0197
			EPA Set Co C: 0.02295
Composite	28.41		Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0130-003 Vehicle ID: VW324 30108

Results

	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.040	0.547	0.067	807.6	0.015	0.024	1.173
Phase 2	0.074	0.633	0.089	1703.9	0.019	0.055	

Test Conditions

	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.92	28.92		
Avg Cell Temp (degF)	73.90	74.00		
Dew Point (degF)	49.11	49.12		
Specific Humidity (grains/lbm)	53.60	53.61		
NOx Corr Factor	0.9086	0.9087		
CO2 Dilution Factor	15.101	11.194		
CFV Vmix (scf @68F)	1851.75	2851.36		
CVS Flow Rate Avg (scfm)	468.40	468.72		

Fan Placement: US06 Only - One Large Fan - Down - Front

Phase Time (secs)	130.01	365.00	107.20
Distance (miles)	1.757	6.235	
Bag Analysis Time (secs)	155.9		

MFR Test Results for Procedure 90 US06

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10024226	0.0164	0.109	0.0275	328	0	0.0106

Odometer	MPG	PM
4936 M	27.3	0.008

MPG is -3.89 % lower than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: leonard.kata@vw.com[leonard.kata@vw.com]; Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]
From: Good, David
Sent: Thur 4/11/2013 5:55:58 PM
Subject: FW: 2012 Volkswgen Group Final CAFE Reports - See A/C 6B for some guidance on the convertibles

Richard,

For the 2012 Convertibles, see A/C 6B, paragraphs F.3. and G.

Call me if questions.

Dave

From: Peavyhouse, Robert
Sent: Thursday, April 11, 2013 1:24 PM
To: Good, David
Subject: FW: 2012 Volkswgen Group Final CAFE Reports

From: Peavyhouse, Robert
Sent: Thursday, April 11, 2013 11:17 AM
To: 'Thomas, Richard (EEO)'
Subject: RE: 2012 Volkswgen Group Final CAFE Reports

I will no longer be doing any calculations apart from the ones provided by Verify. If there is a discrepancy on a particular model type that you can't figure out, let me know and I can run that one specifically.

There is only 1 passenger vehicle submission allowed. It must contain domestic and import.

There is a reporting discrepancy with the "small 2WD SUV's under 6000 pounds". At the time of the footprint submission, it is just a "Small 2WD SUV". We don't know what the weight is, so we don't know if it will end up being a car or a truck. <6000 = car, >6000 = truck. So we calculate the target FE and GHG based on the fact that it is a truck.

If you submit it in a car CAFE submission, we re-calculate the target FE and GHG using the car coefficients. The value used in the reformed standard and GHG standard will be the correct value, but the value on the report will still be the truck value. We are looking for a way to fix this right now.

Ex. 4 - CBI

do that is to label them. That is the only place a model type is defined.

What part of the Verify is looking for 2013 and later?

Robert Peavyhouse
Compliance Division
U.S. EPA - Office of Transportation and Air Quality
phone: (734) 214-4814
email: peavyhouse.robert@epa.gov

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Thursday, April 11, 2013 10:17 AM
To: Peavyhouse, Robert
Cc: Good, David; Kata, Leonard (EEO)
Subject: 2012 Volkswgen Group Final CAFE Reports
Importance: High

Hi Bob;

I have successfully entered the Volkswagen Group (VWGoA) 2012 Light-Duty Truck CAFE

into Verify earlier this week. Will you be running an audit of this report or was that already performed by the attached Verify report I received a short time after I entered the report?

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

VWGoA has been granted an extension for the CAFE and GHG reports to the end of this month, so your prompt reply would be appreciated. I can assume that we will have many exchanges due to the number of brands we have in the VWGoA Passenger Car reports. Again, thanks for your support.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)

Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Glas, Tobias[Tobias.Glas@vw.com]
Cc: Sohacki, Lynn[sohacki.lynn@epa.gov]; Pidgeon, Bill[pidgeon.bill@epa.gov]; Ex. 7 @arb.ca.go Ex. 7 @arb.ca.gov]
From: Good, David
Sent: Thur 4/11/2013 8:19:44 PM
Subject: RE: IUVP CREE question from VW - [I'll defer to Bill Pidgeon & Ex. 7 on how to enter data for 2012MY hwy tests]

Tobias,

I'll defer to Bill Pidgeon & Ex. 7 on how to enter data for the hwy test. We definitely need CREE and NOx data with their associated standards.

It's up to Bill & Ex. 7 whether we also want all the usual emission constituents (NMOG, CO, MPG, etc). Some manufacturers are entering all the data for 2012 highway tests.

Dave

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Thursday, April 11, 2013 12:09 PM
To: Good, David
Cc: Sohacki, Lynn; French, Roberts
Subject: RE: CREE question from VW

Hi Dave !

Thanks for your help ! I checked 86.1818-12 (d) an 600.113-12(g)(4) and they don't mention the DFs but the Final GHG rule is pretty clear.

So I'll use the subconfiguration CREE certification values (which include DFs) to calculate the standard (+10%).

I'll also add CH4 and the standard (0.030 grams/mile) for the FTP.

For the HFET should I submit the usual emission components and the NOx standard (factor 1.33) ?

Otherwise I'll just go by the recipe you sent before.

Details:
Entered the combined CREE result in the Test Result, CREE, Weighted result fields for Test Information (TI) data sets for the FTP and HWY tests.
Entered the combined CREE standard in the In-use standard column.
As there is no bag data for a combined CREE value, a "place holder" value of '999' was entered in for CREE bag data for the FTP TI
In the comment section of the FTP and HWY TI, the CREE value for that particular test was entered

Sorry for all the trouble and please give me a short notice if I'm doing the right thing.

Thanks !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, April 10, 2013 6:19 PM
To: Glas, Tobias
Cc: Sohacki, Lynn; French, Roberts
Subject: RE: CREE question from VW

Tobias,

In-use CREE emission standards are a little different from other criteria pollutants. CREE is a full useful life standard. In-use CREE standards are discussed in the preamble to the final 2012-16 GHG final rule (pages 75 FR 25476-77). There is a little more information in the GHG Q&A document at http://www.epa.gov/otaq/regs/ld-hwy/greenhouse/ld-ghg.htm---see item 8.4.

The in-use CREE standard is calculated according to 86.1818-12(d)---which refers to 600.113-12(g)(4). My notes to that paragraph indicate that the in-use CREE standard includes DFs and is rounded to the nearest 0.1 gpm.

The policy for measuring CFEE on IUVP & EPA in-use test vehicles is outlined in 600.113-12(g)2)(iv)(B) which indicates that DFs are not included in the test results (similar to in-use testing for any other criteria pollutant).

Hope this helps.

Call me at 734-214-4450 if you have any additional questions.

Dave

From: Sohacki, Lynn
Sent: Wednesday, April 10, 2013 3:54 PM
To: Good, David
Subject: CREE question from VW

HI, Dave.

Tobias' phone number is below. Thanks for contacting him.

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Friday, April 05, 2013 1:15 PM
To: Sohacki, Lynn
Subject: RE: Hello

Hi Lynn !

Quick question upfront.

The statement in 600.113-12 doesn't mention any DFs are being used in determining the applicable In-Use CO2 emission standard.

So we calculate the In Use standard without DFs? Because all the CREE values for the fleet are calculated with DFs, so the In Use values will be different.

Have a nice weekend, I"ll talk to you next week.

Best regards

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Friday, April 05, 2013 10:10 AM
To: Glas, Tobias
Subject: RE: Hello

Hi, Tobias.

Thanks for your message. I'm checking about the best way to handle CREE values and will get

back to you as soon as I determine the best course of action.

I hope you have a good weekend!

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Thursday, April 04, 2013 11:15 AM
To: Sohacki, Lynn
Subject: RE: Hello

Hi Lynn !

I have a few questions about submitting CREE values for My 12. Should we handle that via Email or should I come over next week to meet you?

Let me know what is more convenient for you !

Thanks for your help !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:07 PM
To: Glas, Tobias
Subject: Hello!

Hi, Tobias.

I look forward to working with you in EPA's in-use program. Please feel free to call me if you have any questions.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Snyder, Jim[Snyder.Jim@epa.gov]
From: Mazaitis, Vincent
Sent: Fri 4/12/2013 11:15:31 AM
Subject: RE: Test results for Ex. 4 - CBI

Good morning Bill,

Thanks for the note. I'll release the vehicle this morning and you can pick it up any time. It's in the West lot and you may pick up the keys from Security.

Have a good weekend!

Vince Mazaitis

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Friday, April 12, 2013 7:13 AM
To: Mazaitis, Vincent
Cc: Giles, Michael (EEO); Snyder, Jim
Subject: RE: Test results for Ex. 4 - CBI

Hello Vince and Jim,

We will not request a retest of the Beetle and accept the original manufacturer test results as the official values. Please release the vehicle and let us know when we can retrieve it.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Mazaitis, Vincent [mailto:mazaitis.vincent@epa.gov]
Sent: Thursday, April 11, 2013 12:45 PM
To: Rodgers, William (EEO)
Cc: Giles, Michael (EEO); Snyder, Jim
Subject: RE: Test results for **Ex. 4 - CBI**

Hello Bill,

Please find enclosed the Laboratory Test Data for the Subject vehicle. Sorry for the delay!

Best regards,

Vince Mazaitis

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Thursday, April 11, 2013 8:14 AM
To: Snyder, Jim
Cc: Mazaitis, Vincent; Giles, Michael (EEO)
Subject: Test results for **Ex. 4 - CBI**

Hello Jim,

Can you send us the lab result sheets for yesterday's confirmatory testing. Thanks

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]
Cc: Good, David[good.david@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Fri 4/12/2013 12:01:30 PM
Subject: LDT GHG Reformed Standard Discrepancy
20130412070504621.pdf

Hi Bob;

Please find the latest attached LDT CAFE report from Verify. I am having trouble getting the VWGoA GHG standard to agree, and wondered if you can give me more information of what the Verify program does with the data supplied. Looking at the GHG targets for each of the footprints which are displayed to one place right of the decimal and the volumes for each, I calculate in an Excel spreadsheet a value of

Ex. 4 - CBI

I would like to resolve this discrepancy before I enter the much larger VWGoA Passenger Car CAFE. I will check on those 2.0L turbo Beetle Convertible, manual and automatic labels and see what Verify wants over and above the 2012 label and try and create these two labels today.

Thanks,
Richard

To: Good, David[good.david@epa.gov]; French, Roberts[french.roberts@epa.gov]
Cc: Sohacki, Lynn[sohacki.lynn@epa.gov]; Pidgeon, Bill[pidgeon.bill@epa.gov]; Ex. 7 @arb.ca.gov Ex. 7 @arb.ca.gov]
From: Glas, Tobias
Sent: Fri 4/12/2013 6:23:53 PM
Subject: RE: IUVP CREE question from VW - [I'll defer to Bill Pidgeon & Ex. 7 on how to enter data for 2012MY hwy tests]

Hi everybody !

Thanks for your response, all my questions are answered and I'm gonna start the first test results soon.

Have a nice weekend !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Good, David [mailto:good.david@epa.gov]
Sent: Thursday, April 11, 2013 4:20 PM
To: Glas, Tobias
Cc: Sohacki, Lynn; Pidgeon, Bill; Ex. 7 @arb.ca.gov
Subject: RE: IUVP CREE question from VW - [I'll defer to Bill Pidgeon & Ex. 7 on how to enter data for 2012MY hwy tests]

Tobias,

I'll defer to Bill Pidgeon & Ex. 7 on how to enter data for the hwy test. We definitely need CREE and NOx data with their associated standards.

It's up to Bill & Ex. 7 whether we also want all the usual emission constituents (NMOG, CO, MPG, etc). Some manufacturers are entering all the data for 2012 highway tests.

Dave

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Thursday, April 11, 2013 12:09 PM
To: Good, David
Cc: Sohacki, Lynn; French, Roberts
Subject: RE: CREE question from VW

Hi Dave !

Thanks for your help ! I checked 86.1818-12 (d) an 600.113-12(g)(4) and they don't mention the DFs but the Final GHG rule is pretty clear.

So I'll use the subconfiguration CREE certification values (which include DFs) to calculate the standard (+10%).

I'll also add CH4 and the standard (0.030 grams/mile) for the FTP.

For the HFET should I submit the usual emission components and the NOx standard (factor 1.33) ?

Otherwise I'll just go by the recipe you sent before.

Details:
Entered the combined CREE result in the Test Result, CREE, Weighted result fields for Test Information (TI) data sets for the FTP and HWY tests.
Entered the combined CREE standard in the In-use standard column.
As there is no bag data for a combined CREE value, a "place holder" value of '999' was entered in for CREE bag data for the FTP TI
In the comment section of the FTP and HWY TI, the CREE value for that particular test was entered

Sorry for all the trouble and please give me a short notice if I'm doing the right thing.

Thanks !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, April 10, 2013 6:19 PM
To: Glas, Tobias
Cc: Sohacki, Lynn; French, Roberts
Subject: RE: CREE question from VW

Tobias,

In-use CREE emission standards are a little different from other criteria pollutants. CREE is a full useful life standard. In-use CREE standards are discussed in the preamble to the final 2012-16 GHG final rule (pages 75 FR 25476-77). There is a little more information in the GHG Q&A document at http://www.epa.gov/otaq/regs/ld-hwy/greenhouse/ld-ghg.htm---see item 8.4.

The in-use CREE standard is calculated according to 86.1818-12(d)---which refers to 600.113-12(g)(4). My notes to that paragraph indicate that the in-use CREE standard includes DFs and is rounded to the nearest 0.1 gpm.

The policy for measuring CFEE on IUVP & EPA in-use test vehicles is outlined in 600.113-12(g)2)(iv)(B) which indicates that DFs are not included in the test results (similar to in-use testing for any other criteria pollutant).

Hope this helps.

Call me at 734-214-4450 if you have any additional questions.

Dave

From: Sohacki, Lynn
Sent: Wednesday, April 10, 2013 3:54 PM
To: Good, David
Subject: CREE question from VW

HI, Dave.

Tobias' phone number is below. Thanks for contacting him.

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Friday, April 05, 2013 1:15 PM
To: Sohacki, Lynn
Subject: RE: Hello

Hi Lynn !

Quick question upfront.

The statement in 600.113-12 doesn't mention any DFs are being used in determining the applicable In-Use CO2 emission standard.

So we calculate the In Use standard without DFs? Because all the CREE values for the fleet are calculated with DFs, so the In Use values will be different.

Have a nice weekend, I"ll talk to you next week.

Best regards

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Friday, April 05, 2013 10:10 AM
To: Glas, Tobias
Subject: RE: Hello

Hi, Tobias.

Thanks for your message. I'm checking about the best way to handle CREE values and will get back to you as soon as I determine the best course of action.

I hope you have a good weekend!

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Thursday, April 04, 2013 11:15 AM
To: Sohacki, Lynn
Subject: RE: Hello

Hi Lynn !

I have a few questions about submitting CREE values for My 12. Should we handle that via Email or should I come over next week to meet you?

Let me know what is more convenient for you !

Thanks for your help !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:07 PM
To: Glas, Tobias
Subject: Hello!

Hi, Tobias.

I look forward to working with you in EPA's in-use program. Please feel free to call me if you have any questions.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Wehrly, Linc[wehrly.linc@epa.gov]
From: Orehowsky, Karen
Sent: Mon 4/15/2013 1:53:37 PM
Subject: RE: Meeting with Thomas Verheye of the EC

He didn't specifically mention it, but you never know!

From: Wehrly, Linc
Sent: Monday, April 15, 2013 9:52 AM
To: Orehowsky, Karen
Subject: RE: Meeting with Thomas Verheye of the EC

Sure. Do you think he will be interested in fuel economy as well?

Linc Wehrly

Director, Light-Duty Vehicle Center

Compliance Division

Office of Transportation and Air Quality

United States Environmental Protection Agency

(734) 214-4286

wehrly.linc@epa.gov

From: Orehowsky, Karen
Sent: Monday, April 15, 2013 9:45 AM
To: Wehrly, Linc; Samulski, Michael; Sargeant, Kathryn; Machiele, Paul
Cc: Simon, Karl; Iffland, JoNell
Subject: RE: Meeting with Thomas Verheye of the EC

I presume he knows very little about the process given the policy of type approval in the EU. Do

you have an "off the shelf" elementary presentation that you can offer – four or five slides that will explain our cert process and then just get the questions going.

From: Wehrly, Linc
Sent: Monday, April 15, 2013 9:19 AM
To: Orehowsky, Karen; Samulski, Michael; Sargeant, Kathryn; Machiele, Paul
Cc: Simon, Karl; Iffland, JoNell
Subject: RE: Meeting with Thomas Verheye of the EC

Karen,

Do you know what I should be preparing for this meeting? Does he simply want to discuss the process or should we pull together a presentation? I know nothing about this gentleman or how much he knows about our process.

Thanks,

Linc

Linc Wehrly

Director, Light-Duty Vehicle Center

Compliance Division

Office of Transportation and Air Quality

United States Environmental Protection Agency

(734) 214-4286

wehrly.linc@epa.gov

From: Orehowsky, Karen
Sent: Monday, April 15, 2013 9:13 AM

To: Wehrly, Linc; Samulski, Michael; Sargeant, Kathryn; Machiele, Paul
Cc: Simon, Karl; Iffland, JoNell
Subject: FW: Meeting with Thomas Verheye of the EC

This is a reminder of our meeting this THURSDAY at 2:30 with Unit Head, Mr. Thomas Verheye of the EU.

Jonell – can you reserve ASD for this 2:30 conference on Thursday, April 18th

You have been asked to participate to respond to Mr. Verheye's inquiries on the following issues:

Issues for Discussion:

In Use Testing and US certification process– Linc Wehrly

ECA – Royal Caribbean – Mike Samulski

Tier 3 – Kathryn Sargeant or Paul Machiele

Voluntary SULEV Options – Karl Simon

Please let me know if you do NOT plan to attend as we will need to find an alternate program person.

Karen

From: Orehowsky, Karen
Sent: Monday, April 08, 2013 10:10 AM
To: Orehowsky, Karen; Johnson, Hattie
Cc: Simon, Karl; Wehrly, Linc; Sargeant, Kathryn; Samulski, Michael; Machiele, Paul; Harnett, Bill
Subject: RE: Meeting with Thomas Verheye of the EC

Most important piece of information was inadvertently excluded.

This meeting will be THURSDAY, APRIL 18th from 2:30 – 4:00 p.m.

Apologies.

From: Orehowsky, Karen
Sent: Monday, April 08, 2013 9:23 AM
To: Johnson, Hattie
Cc: Simon, Karl; Wehrly, Linc; Sargeant, Kathryn; Samulski, Michael; Machiele, Paul; Harnett, Bill
Subject: Meeting with Thomas Verheye of the EC

Hattie –

Would you schedule the following meeting on Karl's calendar.

Meeting with Thomas Verheye, Head of Unit – Industrial emissions, air quality and noise; DG Environment, European Commission

Invite: Karen Orehowsky

Linc Wehrly

Michael Samulski

Kathryn Sargeant

Paul Machiele

Bill Harnett

Invite Outside EPA Attendees:

Mike Walsh: mpwalsh@theicct.org

Mr. Thomas Verheye: thomas.verheye@ec.europa.eu

I have reserved 6524 ARN for this meeting. Please request ASD's conference room in Ann Arbor for Kathryn and Paul M.

Issues for Discussion:

In Use Testing and US certification process– Linc Wehrly

ECA – Royal Caribbean – Mike Samulski

Tier 3 – Kathryn Sargeant or Paul Machiele

Voluntary SULEV Options – Karl Simon

Please cc: Gwen Stewart and Chris Grundler – I may ask Chris to stop by and greet Mr. Verheye.

Thanks, Hattie!!

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Mon 4/15/2013 5:29:25 PM
Subject: Re: 2013 FE Guide - Errors in EPA's data base as of April 12, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2013 FEGuide-new since 3-1-13 only-all rel dates-no-sales-4-12-2013.xlsx

Richard,

Re: 2013 FE Guide - Errors in EPA's data base as of April 12, 2013 which held up posting on www.fueleconomy.gov

Attached are the 2013 FE Label data in Verify as of April 12, 2013 (new and uncorrected labels since 3/1/2013 only). Labels with pea green fill in the first few columns were not sent to DOE on April 15, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2013 FE Label data will be in June 4, 2013. If you need an important 2013 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Tue 4/16/2013 7:30:49 PM
Subject: RE: Certification Request for Bugatti

Thanks

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, April 16, 2013 3:30 PM
To: Rodgers, William (EEO)
Cc: Giles, Michael (EEO)
Subject: RE: Certification Request for Bugatti

I see all five.

FYI, I will be gone all next week.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Tuesday, April 16, 2013 3:04 PM
To: Snyder, Jim
Cc: Giles, Michael (EEO)
Subject: Certification Request for Bugatti

Hello Jim,

I submitted a Bugatti (manuf. code = BGT) Certificate Request to Verify but have not received a confirmation of accepted request. Did you received this request?

PS- I also submitted 4 Audi certification requests that seem to have gone through fine.

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 4/17/2013 11:25:41 AM
Subject: RE: Certification Request for Bugatti

Jim,

It looks like the Bugatti certification fee payment was delayed for some reason. We are trying to get it pushed through today so you can sign off before next week.

We will let you know when the payment goes through.

Regards,

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, April 16, 2013 3:30 PM
To: Rodgers, William (EEO)
Cc: Giles, Michael (EEO)
Subject: RE: Certification Request for Bugatti

I see all five.

FYI, I will be gone all next week.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Tuesday, April 16, 2013 3:04 PM
To: Snyder, Jim
Cc: Giles, Michael (EEO)
Subject: Certification Request for Bugatti

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confirmation of accepted request. Did you received this request?

PS- I also submitted 4 Audi certification requests that seem to have gone through fine.

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: 'Verify Help Desk (verifyhelp@csc.com)'[verifyhelp@csc.com]
Cc: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]; Good, David[good.david@epa.gov]; Rodgers, William (EEO)[William.Rodgers@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Fri 4/19/2013 12:58:17 PM
Subject: BR 154 and CAFE Submission

Hello Ex. 4 - CBI

I am having difficulty in making minor corrections to several 2012 fuel economy labels in order for me to successfully summit the 2012 Volkswagen Group Passenger Car CAFE report into Verify, due to Ex. 4 - CBI I think this may need the intervention of Bob Peavyhouse. Bob; please contact me.

This is only one example where we have, unfortunately created at the time of 2012 certification,

Ex. 4 - CBI

Please see, Transaction Identifier: Ex. 4 - CBI for this label.

Please investigate and let me know if there is a simple solution, or if this rule can be shut off on made inactive.

Ex. 4 - CBI

Verify CAFE entry and now I am down to 5 pages after two solid weeks of work.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Good, David[good.david@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Fri 4/19/2013 1:25:57 PM
Subject: RE: 2013 FE Guide - Errors in EPA's data base as of April 12, 2013 which held up posting on www.fueleconomy.gov

I made the correction to this label 135 a couple of days ago.

Thanks,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Monday, April 15, 2013 1:29 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: Re: 2013 FE Guide - Errors in EPA's data base as of April 12, 2013 which held up posting on www.fueleconomy.gov

Richard,

Re: 2013 FE Guide - Errors in EPA's data base as of April 12, 2013 which held up posting on www.fueleconomy.gov

Attached are the 2013 FE Label data in Verify as of April 12, 2013 (new and uncorrected labels since 3/1/2013 only). Labels with pea green fill in the first few columns were not sent to DOE on April 15, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2013 FE Label data will be in June 4, 2013. If you need an important 2013 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Wright, DavidA[Wright.DavidA@epa.gov]
From: Snyder, Jim
Sent: Fri 4/19/2013 7:22:07 PM
Subject: RE: Certification Request for Bugatti

Bill, payment for the four Audi certs are not in the database yet either. I have completed reviewing the 4 Audi certs (all in the same test group) but Bill Vanden Broek isn't here today. If timing is an issue Bill Wright can follow up while I am gone next week.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, April 17, 2013 7:26 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO)
Subject: RE: Certification Request for Bugatti

Jim,

It looks like the Bugatti certification fee payment was delayed for some reason. We are trying to get it pushed through today so you can sign off before next week.

We will let you know when the payment goes through.

Regards,

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, April 16, 2013 3:30 PM
To: Rodgers, William (EEO)
Cc: Giles, Michael (EEO)
Subject: RE: Certification Request for Bugatti

I see all five.

Ex. 6

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Tuesday, April 16, 2013 3:04 PM
To: Snyder, Jim
Cc: Giles, Michael (EEO)
Subject: Certification Request for Bugatti

Hello Jim,

I submitted a Bugatti (manuf. code = BGT) Certificate Request to Verify but have not received a confirmation of accepted request. Did you received this request?

PS- I also submitted 4 Audi certification requests that seem to have gone through fine.

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: 'Verify Help Desk (verifyhelp@csc.com)'[verifyhelp@csc.com]
Cc: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]; Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Mon 4/22/2013 6:38:27 PM
Subject: 2014 VWGoA Passenger Car CAFE

Hi Ex. 4 - CBI

Here is the Transaction Identifier: Ex. 4 - CBI for the 2012 Volkswagen Group Passenger Car CAFE. The error message I get when attempting to correct the 2012 fuel economy labels is Ex. 4 - CBI and that example I sent you last week. I tried to make minor technical corrections on label indexes Ex. 4 - CBI for example, and the transaction was rejected due to this business rule.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 4/24/2013 12:15:01 PM
Subject: RE: Should the 2013 Audi R8 be in the FE Label database?

Hi Dave;

There were no 2013 model year Audi R8 models, with neither the 4.2L nor 5.2L engine, and therefore not in the fuel economy guide. If you have further questions, please call.

Best regards,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Tuesday, April 23, 2013 3:28 PM
To: Thomas, Richard (EEO)
Subject: Should the 2013 Audi R8 be in the FE Label database?

Richard,

Someone from the web said it was missing from www.fueleconomy.gov.

Please advise.

Thanks

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Good, David
Sent: Wed 4/24/2013 1:07:36 PM
Subject: RE: Should the 2013 Audi R8 be in the FE Label database? [Thanks] NNTO

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Wednesday, April 24, 2013 8:15 AM
To: Good, David
Subject: RE: Should the 2013 Audi R8 be in the FE Label database?

Hi Dave;

There were no 2013 model year Audi R8 models, with neither the 4.2L nor 5.2L engine, and therefore not in the fuel economy guide. If you have further questions, please call.

Best regards,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Tuesday, April 23, 2013 3:28 PM
To: Thomas, Richard (EEO)
Subject: Should the 2013 Audi R8 be in the FE Label database?

Richard,

Someone from the web said it was missing from www.fueleconomy.gov.

Please advise.

Thanks

Final Greenhouse Gas Rule 75 FR 25324 (May 7, 2010)

DRAFT Summary of CREE Rounding - (ASTM Rounding)

- Regulations Take Precedence **D. Good 7/21/2010, rev 1/13/2011, 1/9/2013**

DRAFT - CREE/OCREE Calculations using city & hwy "Super DFs"

Test Data – round city/hwy to nearest whole gpm:

600.113(g) & 600.206(a)(1) Round City & Hwy CREE/OCREE to nearest whole gpm value

1. Although CREE/OCREE includes deterioration factors (DFs) (or aged components) per 600.113(g)(2)(ii) & (g)(2)(iv)(3), do not apply DFs to each constituent
   - Round HC to nearest 0.001
   - Round CO to nearest 0.01 gpm
   - Round CO_2 to nearest whole number
   - Round NMHC to nearest 0.0001 gpm
   - Round N_2O to nearest 0.0001 gpm
   - Round CH_4 to nearest 0.0001 gpm
   - Round CH_3OH, C_2H_5OH, C_2H_4O, HCHO to nearest 0.0001 gpm
2. Store the sum of the CREE/OCREE constituent values (rounded as above) at the test level
   - For OCREE, include the 298 N2O factor and the 25 CH4 factor
3. Using the Super DFs, calculate the 120K CREE/OCREE levels (used for the certification level of a test group and the final model year report) as follows:
   - Round the sum of the CREE/OCREE constituents (from step 2) to nearest whole number.
   - Apply city Super DF to the city CREE/OCREE test result and the hwy Super DF to the hwy CREE/OCREE test result.
     - Note: Normally, one "Super DF" would be used for both city and hwy tests, however in some cases, manufacturers may want to use separate city & hwy DFs
   - After applying Super DFs, round the resultant CREE/OCREE test results to nearest whole number

How to Determine Super DFs:

- Additive City Super DFs - Manufacturers would determine DFs normally for each durability group (per 86.1823-08(a) thru (l)) for all CREE/OCREE constituents except CO2. For CO2, manufacturers could use a zero DF per 86.1823-08(m)(1) or an alternative DF per 86.1823-08(m)(1)(iii) or (iv). Additive CREE/OCREE Super DFs would be the sum of the individual constituent DFs using the following equation for gasoline vehicles:

  $CREE_{DF} = [(CWF/0.273) \times NMHC_{DF} + 1.571 \times CO_{DF} + CO2_{DF}$

  Round the final CREE/OCREE Super DF to the nearest 0.1 grams/mile similar to 86.1823-08(f)(1)(ii)(B). Additive CREE/OCREE Super DFs less than zero would be changed to zero, similar to 86.1823-08(f)(1)(ii)(B).
- Additive Highway Super DFs - Manufacturers would determine hwy Super DFs for each durability group similar to additive City Super DFs, as outlined above. The provisions of 86.1823-08(m)(3) allow manufacturers the option of using the applicable city Super DF for highway tests (in lieu of determining separate highway Super DF for CREE/OCREE).
- Multiplicative City Super DFs - Same as above for Additive City Super DFs, except that the following equation should be used:

  $CREE_{DF} = CREE_{120K\ emissions} / CREE_{4K\ emissions}$

Again, for CO2, manufacturers should mathematically adjust the durability data so that CO2 uses a 1.0 DF per 86.1823-08(m)(1) or an alternative DF per 86.1823-08(m)(1)(iii) or (iv). For example, manufacturers should calculate the CREE/OCREE DFs using the 4,000 mile CO2 emission value for both the 4,000 and 120,000 mile data points (mathematically assigning no deterioration to CO2 emissions). Multiplicative CREE/OCREE Super DFs should be rounded to three decimal places similar to 86.1823-08(f)(1)(ii)(A). Multiplicative CREE/OCREE Super DFs less than one would be changed to one, similar to 86.1823-08(f)(1)(ii)(B).

- Multiplicative Highway Super DFs – Manufacturers would determine hwy Super DFs for each durability group as outlined above for multiplicative City Super DFs. The provisions of 86.1823-08(m)(3) allow manufacturers the option of using the applicable city Super DF for highway tests (in lieu of determining separate highway Super DF for CREE/OCREE).
- Assigned DFs for Small Volume Manufacturers and Small Volume Test Groups – Similar to the requirements outlined in 40 CFR 86.1826-01 and 86.1838-01 small volume manufacturers can use assigned Super DFs for CREE/OCREE city and highway tests. EPA will determine the appropriate city and highway Super DFs by guidance letter. Super DFs could be mathematically determined from the DFs provided in CCD-05-10 for NMHC/NMOG, CO and HCHO (and assuming emission levels in compliance with the 2012 emission standards). Note that CCD-05-10 provides only multiplicative assigned DFs.

Subconfiguration - round city/hwy to nearest 0.1 gpm:
600.206(a)(2)(ii) Arithmetically average multiple tests and round City & Hwy CREE to nearest 0.1 gpm

- If only one city or one hwy test, CREE is rounded to nearest whole gpm value

Configuration - round city/hwy to nearest 0.1 gpm:
600.206(a)(2)(iii) Sales weight subconfiguration City & Hwy CREE values determined above & round product to nearest 0.1 gpm.

- Determine subconfiguration sales fraction to nearest 0.0001

Configurations for Fleet Ave CREE calcs - round <u>combined</u> CREE to nearest 0.1 gpm:
600.206(a)(3)(ii) Arithmetically average (55/45) City & Hwy CREE values determined above & round combined CREE product to nearest 0.1 gpm

Base Level - round combined CREE to nearest 0.1 gpm:
600.208(a)(4)(ii) Sales weight configuration city/hwy/combined CREE values determined above & round city/hwy/combined product to nearest whole gpm value **[EPA proposed in the FE Label rule to revise 600.208(a)(4)(ii) to require rounding to the nearest 0.1 gpm]**

- Determine configuration sales fraction to nearest 0.0001

Model Type - round combined CREE to nearest whole gpm:
600.208(b)(3)(ii), (b)(4) and 600.510(b)(2)(v) Sales weight base level city/hwy/combined CREE values determined above & round city/hwy/combined CREE product to nearest gpm value

- Determine base level sales fraction to nearest 0.0001

Corporate Average CREE - round combined CREE to nearest whole gpm:
600.510 (a)(2), (b)(2), (j) Sales weight model type combined CREE values determined above & round combined CREE product to the nearest whole gpm value.

- Actual production data are used for each model type instead of sales fraction

Notes: (1) Sales means "produced and delivered for sale;" ref. 86.1865-12(i)(1)
(2) To prevent rounding errors, if only one city or highway test is used for several subconfigurations, the combined results of the sales-weighted configuration, base level and model type calculations must equal the tested city and highway CREE values.

To: leonard.kata@vw.com[leonard.kata@vw.com]
From: Wehrly, Linc
Sent: Fri 4/26/2013 6:35:08 PM
Subject: Diesel PHEV question

Len,

Sorry it has taken so long to respond to your question about diesel SCR DEF freeze protection for your diesel powered PHEV. Unfortunately I don't have a good response. To be frank, we haven't contemplated what to do about freeze protection for a SCR system in a PHEV. My initial thoughts are that CISD-07-07 suggests that manufacturers need to ensure a minimal thaw time, although we never defined what minimal meant for light-duty vehicles. I think the best thing would be for us to have a meeting to discuss how your system works, what the challenges are, and what, if any, recommendations you have.

Thanks.

Linc

Linc Wehrly

Director, Light-Duty Vehicle Center

Compliance Division

Office of Transportation and Air Quality

United States Environmental Protection Agency

(734) 214-4286

wehrly.linc@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Tue 4/30/2013 11:26:45 AM
Subject: RE: VW Group - New certificate requests

Thanks. We'll check the VW payment status and let you know if it went through today.

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, April 29, 2013 3:24 PM
To: Rodgers, William (EEO)
Subject: RE: VW Group - New certificate requests

Thanks for the heads up. I'll keep an eye out for them.

There are a lot of cert apps in the queue. I can approve the Audis and Bugatti but the VW don't show payment yet.

Ex. 6

-Jim

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, April 29, 2013 8:25 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO)
Subject: VW Group - New certificate requests

Hello Jim,

As you might have seen we have submitted several 2014 applications and certificate requests for

Ex. 6

One point I wanted to draw your attention to is the request for test group **Ex. 4 - CBI** This is the first of three test groups you will see with the all-new 1.8L engine included as fuel economy vehicles. The FE test data you were interested in confirming will start arriving soon for these models.

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Tue 4/30/2013 10:29:50 PM
Subject: RE: VW Group - New certificate requests

Bill, the fee payments for all the cert requests are now logged in. I approved one but I have some other brand's requests in the queue ahead of the rest of them. I will be out the rest of the week but will work on them starting on Monday.

-JIM

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Tuesday, April 30, 2013 7:27 AM
To: Snyder, Jim
Subject: RE: VW Group - New certificate requests

Thanks. We'll check the VW payment status and let you know if it went through today.

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, April 29, 2013 3:24 PM
To: Rodgers, William (EEO)
Subject: RE: VW Group - New certificate requests

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Ex. 6

-Jim

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Sent: Monday, April 29, 2013 8:25 AM
To: Snyder, Jim
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Subject: VW Group - New certificate requests

Hello Jim,

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One point I wanted to draw your attention to is the request for test group Ex. 4 - CBI

Ex. 4 - CBI

for these models.

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

From: Tamborra, Nick (EEO)
Location: Online Meeting
Importance: Normal
Subject: EPA-VW PHEV Meeting
Start Date/Time: Tue 5/7/2013 1:00:00 PM
End Date/Time: Tue 5/7/2013 2:00:00 PM

EPA-VW PHEV Meeting

Join online meeting

Non-Responsive

Join by Phone

Non-Responsive

Find a local number

Non-Responsive

Forgot your dial-in PIN?| First online meeting?

[IOC([1033])!]

From: Tamborra, Nick (EEO)
Location: Online Meeting
Importance: Normal
Subject: EPA-VW PHEV Meeting
Start Date/Time: Tue 5/7/2013 1:00:00 PM
End Date/Time: Tue 5/7/2013 2:00:00 PM

EPA-VW PHEV Meeting

Join online meeting

https://join.vw.com/nick.tamborra/HVB60HNN

Join by Phone

+1 (248) 754-6400

+1 (855) 858-8080

Find a local number

Conference ID: 9912349

Forgot your dial-in PIN?| First online meeting?

[IOC([1033])!]

To: Snyder, Jim[Snyder.Jim@epa.gov]; Nevers, Chris[nevers.chris@epa.gov]
From: Johnson, Stuart (EEO)
Sent: Tue 5/7/2013 12:35:31 PM
Subject: FW: EPA presentation new PHEV
Presentation_MQB_PHEV_2013_EPA.pdf

Hello,

Presentation for today's conference call.

Best Regards,

Stuart

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Allen, Gregory[Gregory.Allen@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Rodgers, William (EEO)
Sent: Tue 5/7/2013 7:05:53 PM
Subject: New Verify User for VW Group
NewVerifyUserList Cover-2013_Greg Allen.pdf
VW Group Verify user-info-20130507.xls

Hello Jim,

A 2-day Fed Ex is in the mail to you with the necessary documents to add the following VW staff member as a Verify user:

I have also attach the documents to this message. Please let us know when his user names are established.

Greg Allen, Certification Analyst (248) 754-4209

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

VOLKSWAGEN

GROUP OF AMERICA

Verify Team
OAR/OTAQ/CISD
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105

Leonard W. Kata Name
Manager Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

May 7, 2013 Date

Subject: CROMERR Documents

Dear Verify Team,

The enclosed documents are the completed CROMERR signature forms for the Verify System for the entire Volkswagen Group of America including Audi, Volkswagen, Bentley, Bugatti and Lamborghini.

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Greg Allen is a new addition to our list of approved users for Audi, Volkswagen, Bentley, Bugatti and Lamborghini.

.

If you have any questions with regard to this information please contact our office in Auburn Hills at (248) 754-4219 or (248) 754-4204.

Sincerely,

Leonard Kata
Volkswagen Group of America, Inc.

Enclosures

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

3. I agree to maintain an electronic mail account; if any e-mail sent to me by U.S. EPA is returned as undeliverable, I will explain this occurrence when requested by U.S. EPA. I understand that I will be informed through this e-mail address whenever my user identification or password has been modified.

4. I understand that CDX reports the last date my user identification and password were used immediately after successfully logging into CDX.

5. I understand that whenever I electronically sign and submit an electronic document to the CDX, I will receive an e-mail message at my registered e-mail address as an "out-of-band" receipt. This e-mail message will inform me that a submission has been made to CDX from my user account and will contain instructions to view information regarding the submission in my CDX Inbox.

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8. I agree that if I receive an in-band or out-of-band receipt for a submission that I do not believe that I submitted, I will notify the CDX Help Desk as soon as possible, but no later than 24 hours, after receipt.

9. I agree to contact the CDX Help Desk if I do not receive a receipt either by in-band or out-of-band message within 5 business days for any electronically signed submission using my credentials.

10. I agree to report, within 24 hours of discovery, any evidence of a discrepancy between an electronic document I have signed and submitted and what the CDX has received from me by contacting the CDX Help Desk.

11. I agree to notify U.S. EPA if I cease to represent the regulated entity specified below, by sending an e-mail message to verify@epa.gov with "Verify Account Termination" in the subject line.

12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006398

Signature: 

Printed Name: Greg Allen

Title: Certification Analyst

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: gregory.allen@vw.com

Telephone Number: 248-754-4209 Date: 5/7/2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006399

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

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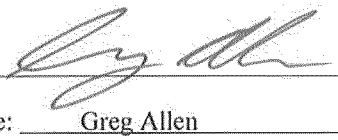
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12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006400

Signature: 

Printed Name: Greg Allen

Title: Certification Analyst

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: gregory.allen@vw.com

Telephone Number: 248-754-4209 Date: 5/7/2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006401

EPA United States Environmental Protection Agency

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To be signed and submitted by a
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VW FOIA, EPA 06/20/2017 2017-FFP_006402

Signature: [signature]

Printed Name: Greg Allen

Title: Certification Analyst

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: gregory.allen@vw.com

Telephone Number: 248-754-4209 Date: 5/7/2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006403

EPA United States Environmental Protection Agency

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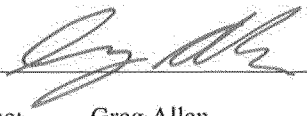
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VW FOIA, EPA 06/20/2017 2017-FFP_006404

Signature: 

Printed Name: Greg Allen

Title: Certification Analyst

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: gregory.allen@vw.com

Telephone Number: 248-754-4209 Date: 5/7/2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006405

EPA United States Environmental Protection Agency

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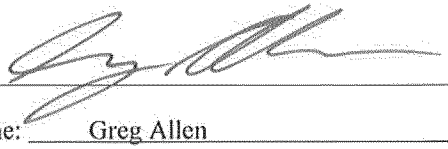
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VW FOIA, EPA 06/20/2017 2017-FFP_006406

Signature: 

Printed Name: Greg Allen

Title: Certification Analyst

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: gregory.allen@vw.com

Telephone Number: 248-754-4209 Date: 5/7/2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006407

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): VWX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Eric
Last Name	Guenther
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	eric.guenther@vw.com
Phone Number	248-754-5943

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 12

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 13	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Registrant 13

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): ADX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Eric
Last Name	Guenther
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	eric.guenther@vw.com
Phone Number	248-754-5943

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 8

the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 12

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 13	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Registrant 13

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): BEX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 7

the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12

Registrant 12

Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): NLX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	
First name	
Last Name	
Suffix (Jr/Sr/III/IV)	
Organization Name	
Mailing Address 1	
Mailing Address 2	
City	
State	
Zip/Postal Code	
Country	
E-mail	
Phone Number	

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12

Registrant 12

Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

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The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): BGT

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	
First name	
Last Name	
Suffix (Jr/Sr/III/IV)	
Organization Name	
Mailing Address 1	
Mailing Address 2	
City	
State	
Zip/Postal Code	
Country	
E-mail	
Phone Number	

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 7

the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12

Registrant 12

Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

To: Good, David[good.david@epa.gov]
Cc: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]; Giles, Michael (EEO)[michael.giles@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Wed 5/8/2013 12:24:38 PM
Subject: 2012 Volkswagen LDT Final CAFE/GHG
LDT 2012 Verify report 8.pdf

Hello Dave;

My colleagues have now entered SuperDFs for the LDT CREE values and our calculations now agree. I processed the report in Verify and we are done with the VWGoA LDT CAFE/GHG calculation. Revised GHG and the CAFE cover letters will follow when we have the Passenger Car category reports finalized. The attached report has a field which indicates the manufacturer final status, yes or no, but I cannot find how I can indicate that on the Verify input. Perhaps this is a field where you (EPA) can assign a disposition.

We are still unable to successfully enter the VWGoA Passenger Car CAFE/GHG into Verify, so I have no way to check the calculation against the Verify report. Please call me.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Wed 5/8/2013 2:18:57 PM
Subject: RE: VW Group - Question about particulate

I talked to Karen. They haven't changed anything w/regard to this. If you haven't resolved it, she offered to look at it if you send the results listing with the error message.

-----Original Message-----
From: Ex. 4 - CBI @csc.com] On Behalf Of Verify Help Desk
Sent: Monday, May 06, 2013 4:32 PM
To: Giles, Michael (EEO)
Cc: Snyder, Jim; Rodgers, William (EEO)
Subject: Re: VW Group - Question about particulate

Hello Mr. Giles,

Ex. 4, 7

Ex. 4 - CBI

Verify Help Desk
Staffed by Computer Sciences Corporation, Contractor to the Environmental Protection Agency

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Giles, Michael (EEO)" <michael.giles@vw.com> 05/06/2013 01:23 PM

To: Verify Help Desk@CSC, "Jim Snyder (Snyder.Jim@epamail.epa.gov)" <Snyder.Jim@epamail.epa.gov>
cc: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
Subject: VW Group - Question about particulate

Hello Ex. 4 - CBI and Jim,

Ex. 4, 7

Thanks,
Mike

Ex. 4, 7

Michael Giles
Emissions Certification Engineer
Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI, 48326

Phone: 248 754 4229
Fax: 248 754 4207

mailto:michael.giles@vw.com
http://www.vw.com

To: Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Wed 5/8/2013 2:19:45 PM
Subject: RE: VW Group - Question about particulate

Oh, just saw your message, great!

-----Original Message-----
From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Wednesday, May 08, 2013 10:11 AM
To: Snyder, Jim; Verify Help Desk
Cc: Rodgers, William (EEO)
Subject: RE: VW Group - Question about particulate

Hello Jim / Vince,

Problem solved, please consider this issue closed!

Ex. 4, 7

Thanks for your help.

Mike

-----Original Message-----
From: Giles, Michael (EEO)
Sent: Tuesday, May 07, 2013 7:51 AM
To: 'Snyder, Jim'; Verify Help Desk
Cc: Rodgers, William (EEO)
Subject: RE: VW Group - Question about particulate

Thanks for the quick replies.

Ex. 4, 7

Regards,
Mike

-----Original Message-----
From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, May 06, 2013 4:59 PM
To: Verify Help Desk; Giles, Michael (EEO)
Cc: Rodgers, William (EEO)
Subject: RE: VW Group - Question about particulate

Ex. 4, 7

-----Original Message-----
From: Ex. 4 - CBI @csc.com] On Behalf Of Verify Help Desk
Sent: Monday, May 06, 2013 4:32 PM
To: Giles, Michael (EEO)
Cc: Snyder, Jim; Rodgers, William (EEO)

Subject: Re: VW Group - Question about particulate

Hello Mr. Giles,

Ex. 4, 7

Ex. 4 - CBI

Verify Help Desk
Staffed by Computer Sciences Corporation, Contractor to the Environmental Protection Agency

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Giles, Michael (EEO)" <michael.giles@vw.com>
05/06/2013 01:23 PM

To: Verify Help Desk@CSC, "Jim Snyder (Snyder.Jim@epamail.epa.gov)" <Snyder.Jim@epamail.epa.gov>
cc: "Rodgers, William (EEO)" <William.Rodgers@vw.com>
Subject: VW Group - Question about particulate

Hello Vince and Jim,

I am trying to submit a carryover test group for Lamborghini, and am getting an error message

Ex. 4, 7

This was not required in the past.

Ex. 4, 7

Thanks,
Mike

Ex. 4, 7

Michael Giles
Emissions Certification Engineer
Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI, 48326

Phone: 248 754 4229
Fax: 248 754 4207

mailto:michael.giles@vw.com
http://www.vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Thur 5/9/2013 11:41:19 AM
Subject: VW Group - Decision Information Submitted

Hi Jim,

I submitted a set of fuel economy tests and decision Information for the 2014 Ex. 4 - CBI Ex. 4 - CBI low volume high performance variant of the Audi Q5 SUV, which includes Ex. 4 - CBI

A manufacturer confirmatory test is required for the Highway cycle based on high FE for the ETW.

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]
From: Rodgers, William (EEO)
Sent: Thur 5/9/2013 7:10:08 PM
Subject: FW: Certificate Ex. 4 - CBI has been issued

Hi Jim,
Can you send us a copy of this Certificate. It went to Bob Hart's Verify inbox which I thought we had deactivated but did not for Bugatti. Therefore we can't access it.

Thanks,
Bill

-----Original Message-----
From: no-reply@epa.gov [mailto:no-reply@epa.gov]
Sent: Tuesday, April 30, 2013 3:38 PM
To: Rodgers, William (EEO); Hart, Robert (VWoA); Giles, Michael (EEO)
Subject: Certificate Ex. 4 - CBI has been issued

The following is a courtesy copy of status message for a Verify submission. Any references made to links refer to links which will appear in the CDX Inbox message.

Ex. 4 - CBI
been issued. A copy of the signed certificate is attached below.

The Verify submission this message relates to has the following values:

Ex. 4 - CBI

The following transaction identifier has been assigned to this request:

Ex. 4 - CBI

Please do not reply to this message.

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Thur 5/9/2013 7:17:33 PM
Subject: RE: Certificate EBGTV08.0V16-001 with Evap Family EBGTR0230V16 has been issued
EBGTV08.0V16-001.pdf

Here it is. I'm leaving now. Will be back Monday.

BTW, The Audi got randomed.

-----Original Message-----
From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Thursday, May 09, 2013 3:10 PM
To: Snyder, Jim
Cc: Giles, Michael (EEO)
Subject: FW: Certificate EBGTV08.0V16-001 with Evap Family EBGTR0230V16 has been issued

Hi Jim,
Can you send us a copy of this Certificate. It went to Bob Hart's Verify inbox which I thought we had deactivated but did not for Bugatti. Therefore we can't access it.

Thanks,
Bill

-----Original Message-----
From: no-reply@epa.gov [mailto:no-reply@epa.gov]
Sent: Tuesday, April 30, 2013 3:38 PM
To: Rodgers, William (EEO); Hart, Robert (VWoA); Giles, Michael (EEO)
Subject: Certificate Ex. 4 - CBI has been issued

The following is a courtesy copy of status message for a Verify submission. Any references made to links refer to links which will appear in the CDX Inbox message.

Ex. 4 - CBI

Please do not reply to this message.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2014 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT OF 1990

OFFICE OF TRANSPORTATION AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Bugatti Automobiles S.A.S.**
(U.S. Manufacturer or Importer)

Certificate Number: **EBGTV08.0V16-001**

Effective Date: 04/30/2013

Expiration Date: 12/31/2014

Byron J. Bunker, Division Director
Compliance Division

Issue Date: 04/30/2013

Revision Date: N/A

Test Group Name: EBGTV08.0V16
Evaporative/Refueling Family Name: EBGTR0230V16
Applicable Exhaust Emission Standards: Federal Tier 2 Bin 5
Applicable Evaporative/Refueling Standards: Federal LEV-II Evap

Engine Displacement: 8.0 Liters
Exhaust Emission Test Fuel Type: Tier 2 Cert Gasoline
Full Useful Life Miles: Exhaust Emissions: 120,000 miles
Full Useful Life Miles: Evaporative/Refueling Emissions: 120,000 miles

Models Covered: Bugatti: Veyron

Pursuant to section 206 of the Clean Air Act (42 U.S.C.7525) and 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable, this certificate of conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Parts 85, 86, 88, 1037, and 600 as applicable) and which represent the new motor vehicle models listed above by test group and evaporative/refueling emission family, more fully described in the application of the above named manufacturer. Vehicles covered by this certificate have demonstrated compliance with the applicable emission standards as more fully described in the manufacturer's application. This certificate covers the above models, which are designed to meet the applicable emission standards specified in 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable at both high and low altitude as applicable.

EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1848(c), and 40 CFR 1037 as applicable.

This certificate covers only those new motor vehicles or vehicle engines which conform, in all material respects, to the design specifications that apply to those vehicles or engines described in the documentation required by 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable and which are produced during the 2014 model year production period stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable. The manufacturer shall obtain the approval of the California Air Resources Board (in the form of an executive order issued by the California Air Resources Board) prior to introducing any vehicle covered by this certificate into commerce 1) in the State of California, or 2) in a State that, under the authority of Section 177 of the Clean Air Act, has adopted and placed into effect the California standards to which this test group has been certified.

Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded fuel. This certificate is issued subject to the conditions specified in 40 CFR 80.24. Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel, otherwise covered by this certificate, which are driven outside the United States, Canada, Mexico, Japan, Australia, Taiwan and the Bahama Islands will be presumed to have been operated on leaded fuel resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this certificate unless included in a catalyst control program operated by manufacturer or a United States Government Agency and approved by the Administrator.

In the case of completely assembled vehicles, this certificate of conformity covers only vehicles which are completely manufactured prior to January 1, 2015. Normally incompletely assembled vehicles (such as cab chassis) may be completed after this date, provided that the basic manufacturing (including installation of the emission control system) was completed prior to January 1, 2015. This certificate does not cover vehicles sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Giles, Michael (EEO)
Sent: Mon 5/13/2013 1:12:44 PM
Subject: RE: VW Group - Certificate Request for MY2014 Lamborghini Test Ex. 4 - CBI

Hello Jim,

As we discussed, I just sent in a revision (R02) for the Lamborghini application and new cert request this morning.

Thanks again for the help.

Regards,

Mike

From: Giles, Michael (EEO)
Sent: Friday, May 10, 2013 9:09 AM
To: Snyder, Jim
Cc: Rodgers, William
Subject: VW Group - Certificate Request for MY2014 Lamborghini Test Ex. 4 - CBI

Hello Jim,

Today we submitted a certificate request for carryover Lamborghini test Ex. 4 - CBI.

Ex. 4 - CBI

Please review and let us know if you have questions.

Regards,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Rodgers, William (EEO)
Sent: Mon 5/13/2013 2:15:30 PM
Subject: Please Reprocess Certificate - 2014 VW Touareg TDI

Jim,

On Friday I submitted a Certificate LOCK request per the help desk for 2014 test group Ex. 4 - CBI It seems that changes made to the CSI, related to Manuf. code and Division number, now need a new Certificate processed in order for the Verify fuel economy submission to work. I assume a new signature is not necessary. Let me know once you have completed the reprocessing.

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Mon 5/13/2013 6:48:17 PM
Subject: Revised Application

Hi Jim,

I revised the application for test Ex. 4 - CBI which was missing the Cert Fee Filing form.

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
Cc: Good, David[good.david@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]
From: Peavyhouse, Robert
Sent: Mon 5/13/2013 6:57:50 PM
Subject: RE: 2012 VWGoA Passenger Car CAFE

Richard,

I am looking into this right now.

Should know more in an hour or so.

Robert Peavyhouse
Compliance Division
U.S. EPA - Office of Transportation and Air Quality
phone: (734) 214-4814
email: peavyhouse.robert@epa.gov

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Monday, May 13, 2013 9:30 AM
To: Peavyhouse, Robert
Cc: Good, David; Snyder, Jim
Subject: 2012 VWGoA Passenger Car CAFE
Importance: High

Hello Bob;

Now that the passenger car CAFE has been accepted into Verify, I now find problems for model

Ex. 4 - CBI

from the Verify calculation. I think it is related to the volumes in the above label indexes.

The only way I see that we here can fix this problem is to go back to the original certification

Ex. 4 - CBI

number, which might mean new or reissued certificates for these test groups. Do you see any other way around the new business rule?

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Mon 5/13/2013 7:01:30 PM
Subject: RE: Revised Application

That was quick. Thanks for taking of that.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, May 13, 2013 2:48 PM
To: Snyder, Jim
Subject: Revised Application

Hi Jim,

I revised the application for test group EVWXV03.6U41 which was missing the Cert Fee Filing form.

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Haynes, Ben[haynes.ben@epa.gov]
From: Snyder, Jim
Sent: Tue 5/14/2013 7:45:32 PM
Subject: RE: VW Group - Confirmatory Test Reschedule Requested

Since its not a diesel or AWD test vehicle, its not dependent on Cell 329. As long as Ben can fit it in that week's schedule.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Tuesday, May 14, 2013 10:54 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory; Thomas, Richard (EEO)
Subject: VW Group - Confirmatory Test Reschedule Requested

Hello Jim,

We would like to move up the confirmatory test for VID E3UF-SQ5 to June 19, 2013, with the vehicle arrival to EPA on Monday June 17th. In your absence I discussed the possibility of this change with Ben Haynes who seemed cautiously optimistic. I have submitted a correction to the Decision Information file to reflect the changed vehicle arrival date. Please let us know if in fact this test can be rescheduled.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Giles, Michael (EEO)
Sent: Tue 5/14/2013 9:07:42 PM
Subject: VW Group - Lamborghini Application revision

Hi Jim,

Just a heads up, there is yet another revision of the application for the Lamborghini. We added **Ex. 4 - CBI**

Let me know if there are any questions.

Thanks

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Haynes, Ben[haynes.ben@epa.gov]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 5/15/2013 1:33:16 PM
Subject: RE: VW Group - Confirmatory Test Reschedule Requested

We will deliver the vehicle on Monday June 17th in hopes of a test date of June 19th.

Thanks,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, May 14, 2013 3:46 PM
To: Rodgers, William (EEO)
Cc: Haynes, Ben
Subject: RE: VW Group - Confirmatory Test Reschedule Requested

Since its not a diesel or AWD test vehicle, its not dependent on Cell 329. As long as Ben can fit it in that week's schedule.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Tuesday, May 14, 2013 10:54 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory; Thomas, Richard (EEO)
Subject: VW Group - Confirmatory Test Reschedule Requested

Hello Jim,

We would like to move up the confirmatory test for Ex. 4 - CBI to June 19, 2013, with the vehicle arrival to EPA on Monday June 17th. In your absence I discussed the possibility of this change with Ben Haynes who seemed cautiously optimistic. I have submitted a correction to the Decision Information file to reflect the changed vehicle arrival date. Please let us know if in fact this test can be rescheduled.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 5/15/2013 1:52:31 PM
Subject: RE: [Fueleconomy] Chevrolet Cruze / Volkswagen Jetta

Hi Dave;

Ex. 4 - CBI

for carline Jetta (221).

2010MY

<CarlineCode>221

<CarlineClassCode>4

<FullCarlineName>Jetta

<DomesticImportCode>I

<VehicleVolumeMeasureDetails>

<AveragePassengerVolumeMeasure>90.77

<AverageLuggageVolumeMeasure>15.562

<FourDoorPassengerVolumeMeasure>91

<FourDoorLuggageVolumeMeasure>16

2011MY – 2014MY

<CarlineCode>221

<CarlineClassCode>4

<FullCarlineName>Jetta

<DomesticImportCode>I

<VehicleVolumeMeasureDetails>

<AveragePassengerVolumeMeasure>94.12

<AverageLuggageVolumeMeasure>15.68

<FourDoorPassengerVolumeMeasure>94

<FourDoorLuggageVolumeMeasure>16

From: Good, David [mailto:good.david@epa.gov]
Sent: Tuesday, May 14, 2013 5:30 PM
To: Thomas, Richard (EEO)
Subject: FW: [Fueleconomy] Chevrolet Cruze / Volkswagen Jetta

Richard,

When you get a chance, please let me know what you think about this question.

Are the 2011-13 Jetta models correctly classified as compact vehicles? I assume that the unrounded (interior + cargo) volume is below 100 cubic feet (but I can't view it from Verify backend).

Thanks

From: Boundy, Robert Gary [mailto:boundyrg@ornl.gov]
Sent: Tuesday, May 14, 2013 12:28 PM
To: Good, David
Subject: FW: [Fueleconomy] Chevrolet Cruze / Volkswagen Jetta

Hi Dave,

I think there may be an error in the classification of the 2011-2013 Volkswagen Sedan. It's listed as a Compact but has the exact same interior dimensions as the Chevrolet Cruze and adds up to 110 cubic feet. In 2010 it was correctly classified as a compact at 107 cubic feet but from 2011-2013 it's 110 cubic feet. See screen capture below:
http://www.fueleconomy.gov/feg/Find.do?action=sbs&id=28611&id=30344&id=31204&id=32991

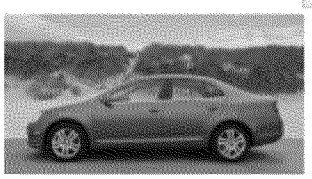
You are here: Find a Car Home > Side-by-Side Select > Compare Side-by-Side

Compare Side-by-Side

Fuel Economy | Energy and Environment | Safety | Specs

Personalize

Edit Vehicles

	2010 Volkswagen Jetta	2011 Volkswagen Jetta	2012 Volkswagen J
			
	2.5 L, 5 cyl, Automatic (S6)	2.5 L, 5 cyl, Automatic (S6)	2.5 L, 5 cyl, Automat
	MSRP: $17,735 - $26,090	MSRP: $15,365 - $25,295	MSRP: $15,515 - $2
Vehicle Specification Data			
EPA Size Class ⓘ	Compact Cars	Compact Cars	Compact Cars
Drive	Front-Wheel Drive	Front-Wheel Drive	Front-Wheel Dri
Gas Guzzler	No	No	No
Turbocharger	No	No	No
Supercharger	No	No	No
Passenger Volume	91 ft^3 (4 door)	94 ft^3 (4 door)	94 ft^3 (4 door)
Luggage Volume	16 ft^3 (4 door)	16 ft^3 (4 door)	16 ft^3 (4 door)
Engine Descriptor ⓘ			
Transmission Descriptor ⓘ			

We would appreciate your guidance on this.

Bob

Bob Boundy

Roltek, Inc., Supporting:

Oak Ridge National Laboratory

www.fueleconomy.gov

Email: boundyrg@ornl.gov

Phone: (856) 850-0766

-----Original Message-----
From: TK Photoworks [Ex. 6]
Sent: Monday, May 13, 2013 10:13 PM
To: FuelEconomy
Subject: [Fueleconomy] Chevrolet Cruze / Volkswagen Jetta

I was just curious on what the reasoning is that the Chevrolet Cruze is classified as a MidSize automobile but the VW Jetta is classified as a compact. Their interior room is identical and their exterior dimensions are very close with the Jetta actually being slightly longer.

Thanks.

Sent from my iPhone 4

Fueleconomy mailing list

Fueleconomy@email.ornl.gov

https://email.ornl.gov/mailman/listinfo/fueleconomy

To unsubscribe, send a blank email to fueleconomy-unsubscribe@email.ornl.gov

Compare Side-by-Side

Fuel Economy | Energy and Environment | Safety | Specs

Personalize

Edit Vehicles

	2010 Volkswagen Jetta	2011 Volkswagen Jetta	2012 Volkswagen Jetta	2013 Volkswagen Jetta
				
	2.5 L, 5 cyl, Automatic (S6)	2.5 L, 5 cyl, Automatic (S6)	2.5 L, 5 cyl, Automatic (S6)	2.5 L, 5 cyl, Automatic (S6)
	MSRP: $17,735 - $26,090	MSRP: $15,365 - $25,295	MSRP: $15,515 - $26,445	MSRP: $15,545 - $26,990
Vehicle Specification Data				
EPA Size Class ⓘ	Compact Cars	Compact Cars	Compact Cars	Compact Cars
Drive	Front-Wheel Drive	Front-Wheel Drive	Front-Wheel Drive	Front-Wheel Drive
Gas Guzzler	No	No	No	No
Turbocharger	No	No	No	No
Supercharger	No	No	No	No
Passenger Volume	91 ft^3 (4 door)	94 ft^3 (4 door)	94 ft^3 (4 door)	94 ft^3 (4 door)
Luggage Volume	16 ft^3 (4 door)	16 ft^3 (4 door)	16 ft^3 (4 door)	16 ft^3 (4 door)
Engine Descriptor ⓘ				
Transmission Descriptor ⓘ				

To: Richard.Thomas@vw.com[Richard.Thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Stump, Barbara[Stump.Barbara@epa.gov]
From: VandenBroek, Willem
Sent: Fri 5/17/2013 1:39:25 PM
Subject: Ex. 4 - CBI

Richard,

We noticed that application documents have been submitted for these two families, including their fee filing forms dated 5/2; these will be listed as paid and cleared for review once the payments have been received.

Regards,

Bill

To: Spears, Matthew[spears.matthew@epa.gov]; Charmley, William[charmley.william@epa.gov]; Wehrly, Linc[wehrly.linc@epa.gov]; Nevers, Chris[nevers.chris@epa.gov]
From: Johnson, Stuart (EEO)
Sent: Fri 5/17/2013 7:05:30 PM
Subject: DEF Refill INterval
VW Group DEF Refill Update May-2013.pdf

Gentleman,

I was encouraged to hear the comments made on Tuesday at the EPA workshop regarding the DEF refill interval for light duty vehicles. It sounded like there was some optimism that a shorter refill interval will be approved.

Attached please see some additional slides we have prepared regarding light duty DEF refill intervals. My colleagues in Germany have offered to participate in a conference call with you on this topic. If you have any questions or want to have a conference call I can set that up for next week. Please let me know.

We appreciate the discussion on this topic.

Best Regards,

Stuart

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Fri 5/17/2013 7:53:01 PM
Subject: re: 2014 FE Guide - Errors in EPA's data base as of May 16, 2013 which held up posting on www.fueleconomy.gov
VW_Group_2014 FEGuide-all rel dates-no-sales-5-16-2013.xlsx

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of May 16, 2013 which held up posting on www.fueleconomy.gov

Attached are the data in Verify as of May 16, 2013. Labels with pea green fill in the first few columns were not sent to DOE on May 17, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2014 FE Label data will be on June 4, 2013 or so (on a monthly schedule where I run the query on the 1st and 15th of the month—plus I'm out of the office on June 3rd). If you need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Glas, Tobias[Tobias.Glas@vw.com]
From: Sohacki, Lynn
Sent: Fri 5/17/2013 8:40:33 PM
Subject: Notificaiton of EPA In-use class S146
NOTIF-S-146-Audi.doc

Hi, Tobias.

Attached is a copy of the letter sent to your company announcing the selection of class S146. The estimated start date is the week ending June 28, 2013.

Please let me know if you have any questions.

Thanks,

Lynn Sohacki

Compliance Division

Environmental Protection Agency

734-214-4851

734-214-4869 fax

May 6, 2013

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Rd.,
Auburn Hills, Michigan 48326

Dear Mr. Reineke,

The Environmental Protection Agency will test a 2011 model-year Audi test-group in our surveillance test-program. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. Test results which exceed applicable standards may lead to confirmatory testing.

A sample of three or more vehicles will be procured. Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. If this test-group contains models which are two wheel drive with selectable four wheel drive or selectable all wheel drive, the vehicles may be tested in either of these modes.

One vehicle may be subjected to an evaporative test per class. Additionally, fault conditions may be introduced on one or more of the vehicles to test the response of the On-Board Diagnostics (OBD) system. If you are aware of OBD enabling criteria which would limit our ability to evaluate these systems, please inform me. Copies of the OBD enabling criteria which were approved during certification should be provided if there are such limitations.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

Lynn Sohacki
Compliance Division

Enclosure

ENCLOSURE 1

Lab	NVFEL Ann Arbor, Michigan
Test Group	BADXV02.03UA
Estimated Start Date	Week-ending <date>
Recall/Testing Representative	Lynn Sohacki
Telephone Number	(734) 214-4851
E-mail address	Sohacki.lynn@epa.gov
Class Numbers	S146/S147 (low-mileage / high-mileage)

To: Good, David[good.david@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Mon 5/20/2013 1:35:58 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of May 16, 2013 which held up posting on www.fueleconomy.gov

Hi Dave;

I made the corrections to the five labels and the annual fuel and 5 year fuel cost values. This was **Ex. 4 - CBI** If you can send the query a couple days before you send the data to DOE, in most cases I can resolve any discrepancies.

Best regards,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Friday, May 17, 2013 3:53 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: re: 2014 FE Guide - Errors in EPA's data base as of May 16, 2013 which held up posting on www.fueleconomy.gov

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of May 16, 2013 which held up posting on www.fueleconomy.gov

Attached are the data in Verify as of May 16, 2013. Labels with pea green fill in the first few columns were not sent to DOE on May 17, 2013 for posting on the web. Error messages are in the first column with the column where the error occurred highlighted in yellow fill, as usual.

The next normal posting of 2014 FE Label data will be on June 4, 2013 or so (on a monthly schedule where I run the query on the 1st and 15th of the month—plus I'm out of the office on June 3rd). If you need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Glas, Tobias
Sent: Mon 5/20/2013 2:51:42 PM
Subject: RE: Notificaiton of EPA In-use class S146

Hi Lynn !

Thank you for the information. Please keep me updated about the schedule of the program.

If you need any information do not hesitate to contact me.

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Friday, May 17, 2013 4:41 PM
To: Glas, Tobias
Subject: Notificaiton of EPA In-use class S146

Hi, Tobias.

Attached is a copy of the letter sent to your company announcing the selection of class S146. The estimated start date is the week ending June 28, 2013.

Please let me know if you have any questions.

Thanks,

Lynn Sohacki

Compliance Division

Environmental Protection Agency

734-214-4851

734-214-4869 fax

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]
From: Rodgers, William (EEO)
Sent: Mon 5/20/2013 3:25:45 PM
Subject: Cert Fee Payments

Hi Jim,

You mentioned to Mike that you are waiting on some Certification Fee payments to show up. Please let me know if there is anything on our side that is holding things up. It's my understanding that all have been paid but can follow up if not.

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Tue 5/21/2013 12:45:15 PM
Subject: FW: Fix for CAFE PV submission

Hi Jim;

Not sure if you are there today…so just in case see below and maybe call me.

From: Thomas, Richard (EEO)
Sent: Tuesday, May 21, 2013 8:41 AM
To: 'Peavyhouse, Robert'
Cc: Giles, Michael (EEO)
Subject: RE: Fix for CAFE PV submission

Hello Bob;

I went back and checked these labels to make them so the volumes for the footprint match the CAFE model indexes. Now the corrected PC CAFE is not accepted into Verify. I see now that

Ex. 4 - CBI

I must also change the lockup to "NO" for test **Ex. 4 - CBI**

Ex. 4 - CBI

Will it also be necessary to change the original label indexes so that the carline manufacturer configurations agree with the CAFE model indexes?

We have no notice that the two test group certificates were signed, only that they were approved by Jim and sent up for signatures. Both Dave and Jim are out the rest of the week. Are you working the rest of this week? I wanted to interrupt the certificate approval process and make these additional changes but have no one to contact other than yourself.

Best regards,

Richard

From: Peavyhouse, Robert [mailto:Peavyhouse.Robert@epa.gov]
Sent: Monday, May 20, 2013 3:50 PM
To: Thomas, Richard (EEO)
Subject: RE: Fix for CAFE PV submission

Richard,

It isn't quite that easy. We need to make modifications to the CAFE/GHG submission as well.

In order for the production volume to be counted for any model type, the Carline Mfr, Division, and Carline have to match the model type.

So you have to change the carline volumes that didn't get counted over to the other Mfr/Division.

For example:

In Model type index #4 was for:

Ex. 4 - CBI

Production volume of **Ex. 4 - CBI**

but the production volume of **Ex. 4 - CBI**

Ex. 4 - CBI

(They exist in the test group now as certified models, which is why we added them as part of step 1 of the fix)

Robert Peavyhouse
Compliance Division
U.S. EPA - Office of Transportation and Air Quality
phone: (734) 214-4814
email: peavyhouse.robert@epa.gov

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Monday, May 20, 2013 2:22 PM
To: Peavyhouse, Robert
Subject: RE: Fix for CAFE PV submission

The certificates for the two 2012 test groups are approved and up for signing. When I know they are signed I will reenter the PC CAFE and see what errors I get.

From: Peavyhouse, Robert [mailto:Peavyhouse.Robert@epa.gov]
Sent: Monday, May 20, 2013 7:41 AM
To: Thomas, Richard (EEO)
Cc: Giles, Michael (EEO)
Subject: RE: Fix for CAFE PV submission

Either way you will have to get the certificate re-issued because you changed the carline.

The difference is: If you make one common carline instead of just adding the 2nd carline, then you would have to go back and re-label all of them.

This way you don't have to re-label anything. We can get CAFE to work without having to re-

label.

Robert Peavyhouse
Compliance Division
U.S. EPA - Office of Transportation and Air Quality
phone: (734) 214-4814
email: peavyhouse.robert@epa.gov

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Friday, May 17, 2013 6:06 AM
To: Peavyhouse, Robert
Cc: Wehrly, Linc; Giles, Michael (EEO)
Subject: RE: Fix for CAFE PV submission

Hi Bob;

We added all the new carline descriptions for the CC, Beetle and Jetta as you asked. Maybe I am missing something here but won't the certificates need to be reissued and how is this better

Ex. 4 - CBI

manufacturer code on a 2014 label and to just change it on the certification information was not enough, the certificate had to be signed again by Linc Wehrly. I am in the office today if you want to try to reach me by phone for the next steps.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

From: Peavyhouse, Robert [mailto:Peavyhouse.Robert@epa.gov]
Sent: Thursday, May 16, 2013 10:18 AM
To: Thomas, Richard (EEO)
Subject: Fix for CAFE PV submission

Richard,

I have figured out how to get this submission to work.

When doing the following DO NO remove any of the certified models that are already there, otherwise you will have to re-label all of them.

Ex. 4 - CBI

(there will be 4 entries; Federal M6, Federal SA6, California M6, California SA6)

Ex. 4 - CBI

(Each model will have 4 entries, similar to above).

You may have to mess with the permissions a little to get those accomplished.

The down side of doing this is that the "CC" will appear on the certificate twice.

The "Jetta" and the "Beetle" will appear on their certificate twice also.

I have already mentioned this to Jim Snyder, so he knows it is coming.

Once they have accepted in Verify and the certificates all exist, fixing the CAFE data should be easy.

Let me know once you have the test groups and certificates all updated and I will walk you through the rest.

Robert Peavyhouse
Compliance Division
U.S. EPA - Office of Transportation and Air Quality
phone: (734) 214-4814
email: peavyhouse.robert@epa.gov

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Snyder, Jim
Sent: Tue 5/21/2013 7:15:38 PM
Subject: RE: Cert Fee Payments

I talked to Richard Thomas about it yesterday but I haven't seen anything.

JIM

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, May 20, 2013 11:26 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO)
Subject: Cert Fee Payments

Hi Jim,

You mentioned to Mike that you are waiting on some Certification Fee payments to show up. Please let me know if there is anything on our side that is holding things up. It's my understanding that all have been paid but can follow up if not.

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: VandenBroek, Willem[vandenbroek.willem@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Stump, Barbara[Stump.Barbara@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 5/22/2013 2:48:44 PM
Subject: RE: EADXT02.0HUB and EADXJ03.03UF

These two, plus the third Audi test group (EADXJ02.0FUB) will be electronically paid today and should be available in the EPA account tomorrow.

From: VandenBroek, Willem [mailto:vandenbroek.willem@epa.gov]
Sent: Friday, May 17, 2013 9:39 AM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim; Stump, Barbara
Subject: **Ex. 4 - CBI**

Richard,

We noticed that application documents have been submitted for these two families, including their fee filing forms dated 5/2; these will be listed as paid and cleared for review once the payments have been received.

Regards,

Bill

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]; VandenBroek, Willem[vandenbroek.willem@epa.gov]
Cc: Stump, Barbara[Stump.Barbara@epa.gov]
From: Snyder, Jim
Sent: Wed 5/22/2013 8:44:58 PM
Subject: RE: EADXT02.0HUB and EADXJ03.03UF

That's good to hear . I just checked, Bill updated the fees database today but its not in there yet. I have mandatory Furlough Thursday and flex day Friday so I will review and complete when I get back on Tuesday.

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Wednesday, May 22, 2013 10:49 AM
To: VandenBroek, Willem
Cc: Snyder, Jim; Stump, Barbara
Subject: RE: EADXT02.0HUB and EADXJ03.03UF

These two, plus the third Audi test group (EADXJ02.0FUB) will be electronically paid today and should be available in the EPA account tomorrow.

From: VandenBroek, Willem [mailto:vandenbroek.willem@epa.gov]
Sent: Friday, May 17, 2013 9:39 AM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim; Stump, Barbara
Subject: EADXT02.0HUB and EADXJ03.03UF

Richard,

We noticed that application documents have been submitted for these two families, including their fee filing forms dated 5/2; these will be listed as paid and cleared for review once the payments have been received.

Regards,

Bill

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Tue 5/28/2013 12:35:13 PM
Subject: 2012 VWGoA Final PC and LDT CAFE/GHG Reports

Please call me at your earliest convenience for a discussion regarding the CAFE final steps.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Giles, Michael (EEO)
Sent: Wed 5/29/2013 12:24:03 PM
Subject: VW Group - Certificate Requests for MY 2014 VW 2.5L Test Groups

Hello Jim,

I just submitted 2 applications and certificate requests for two related BIN 3 / PZEV test groups for 2.5L Golf ,Jetta, Sportwagen , Passat , Beetle and Beetle Convertible:

EVWXV02.5A59 (automatic) / EVWXV02.5M59 (manual)

Each of these test groups include the same two evap familes: EVWXR0110237 and EVWXR0125P46

These test groups are carryover from MY 2013 with no new tests. Please let me know if you have any questions processing these.

Thanks

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 5/29/2013 12:35:12 PM
Subject: VW group - Certificate Status Check

Hi Jim,

I am just checking to see if we are on the same page with pending certificates. I currently have the following test groups as pending your approval:

EADXV02.03UB

EADXJ02.0FUB

EADXT02.0HUB

EADXJ03.03UF

EVWXV02.0U5N – Lock request with revised Certificate requested

EVWXV02.5M59 – just submitted today

EVWXV02.5A59 – just submitted today

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Snyder, Jim
Sent: Wed 5/29/2013 4:23:25 PM
Subject: RE: VW group - Certificate Status Check

Bill, I left you a phone message but its probably easier to put it on virtual paper below

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, May 29, 2013 8:35 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory
Subject: VW group - Certificate Status Check

Hi Jim,

I am just checking to see if we are on the same page with pending certificates. I currently have the following test groups as pending your approval:

EADXV02.03UB Fees paid but no cert request showing in verify

EADXJ02.0FUB Fees not paid and but no cert request showing in verify

EADXT02.0HUB Fee payment still not showing

EADXJ03.03UF Fee payment still not showing

EVWXV02.0U5N – Lock request with revised Certificate requested ?

EVWXV02.5M59 – just submitted today Fees paid

EVWXV02.5A59 – just submitted today Fees paid

VW 2.0U4S Fees paid

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Wed 5/29/2013 5:02:03 PM
Subject: re: 2014 FE Guide - Errors in EPA's data base as of May 28, 2013
VW_Group_2014 FEGuide-all rel dates-no-sales-5-28-2013.xlsx

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of May 28, 2013

Heads up:

Attached are the data in Verify as of May 28, 2013. Labels with pea green fill in the first few columns have errors which need to be corrected before I can have the data posted on www.fueleconomy.gov.

The next normal posting of 2014 FE Label data will be on June 4, 2013 or so (on a monthly schedule where I run the query on the 1st and 15th of the month—Ex. 6). If you need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Good, David[good.david@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 5/29/2013 6:39:52 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of May 28, 2013

Hi Dave;

I made the corrections to the two labels.

Thanks,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, May 29, 2013 1:02 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: re: 2014 FE Guide - Errors in EPA's data base as of May 28, 2013

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of May 28, 2013

Heads up:

Attached are the data in Verify as of May 28, 2013. Labels with pea green fill in the first few columns have errors which need to be corrected before I can have the data posted on www.fueleconomy.gov.

The next normal posting of 2014 FE Label data will be on June 4, 2013 or so (on a monthly schedule where I run the query on the 1st and 15th of the month—**Ex. 6**). If you need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Thomas, Richard (EEO)
Sent: Thur 5/30/2013 2:14:19 PM
Subject: 2014 Audi Cert Fees

Hi Jim;

I spoke with Bill VandenBroek his morning and he found the $89,544 payment made on the 23rd of May in the system. Please talk to him and you should be set for the three 2014 Audi test groups you have. If you have any questions, please call me.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Good, David[good.david@epa.gov]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Fri 5/31/2013 2:07:50 PM
Subject: 2012 VWGoA LDT and PC Final CAFE Reports
Final CAFE 2012 LDT to EPA .pdf
Final CAFE 2012 PC to EPA .pdf

Hello Dave;

Please find attached the Volkswagen Group of America, Inc. Final LDT category CAFE report. This cover letter and report has been entered into the documents section of Verify. There will be a revision to the LDT GHG report previously submitted in March 2013.

In a separate cover letter please find both Import and Domestic, Passenger Car category 2012 reports. This document has also been uploaded to the Verify compliance documents section.

If you have any questions, please feel free to call me.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

VOLKSWAGEN

GROUP OF AMERICA

Mr. Linc Wehrly
Compliance and Innovative Strategies Division
Light-Duty Vehicle Group
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Mr. Oliver Schmidt Name
General Manager Title
EEO Department
248 754 4201 Phone
248 754 4207 Fax
Oliver.Schmidt@vw.com E-Mail

May 30, 2013 Date

Subject: VOLKSWAGEN Group 2012 Final LDT CAFE Report

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Enclosed is the manufacturer's calculation for the 2012 final fuel economy average. This calculation is provided for the Volkswagen Group Import Truck category and in accordance with the regulations contained in 40 CFR 600.510-12. The final CAFE value is based upon approved EPA fuel economy data and final production volumes for the 2012 model year.

The report has been successfully processed in and submitted through Verify. The Volkswagen Group reformed LDT CAFE standard is **26.9** MPG for the 2012 model year in accordance with 49 CFR 533.5 (h).

The final Volkswagen Group Import Truck CAFE value is **27.4** MPG.

If you have any questions or require additional information, please contact me or Richard Thomas of my staff at (248) 754-4213 or email Richard.Thomas@VW.com.

Sincerely,
VOLKSWAGEN Group of America, Inc.

Mr. Oliver Schmidt, General Manager
Engineering and Environmental Office

Attachments

2012 FINAL CAFE-IMPORT TRUCK
VOLKSWAGEN GROUP
MANUFACTURER AVERAGE CALCULATION

Calculate fuel economy average of domestically and non-domestically produced automobiles where:

$$\text{Import Average IAFE} = \frac{\text{TIPA}}{\sum_{MT=1}^{n} \frac{\text{IMT}}{\text{FEMT}}} = \mathbf{27.4}\ \text{MPG (unadjusted)}$$

IAFE	Average fuel economy of non-domestically produced trucks.
TIPA	Total number of trucks produced or imported for sale in the United States.
IMT	Number of trucks of a model type produced or imported.
FEMT	Fuel economy, MPG for a model type.
MT	Model type
n	Total number of model types imported (as applicable in a manufacturer's model year).

$$\text{IAFE (unadjusted)} = \frac{64{,}882}{2367.3435} = 27.4071\ \text{MPG}$$

VW FOIA, EPA

Brand	Carline	Engine	DISP	Trans	IW	CITY	HWY	ROUNDED COMB
Audi	Q5 (330)	2.0L TFSI	2.0 / 121	S8	4500	24.6000	35.9000	28.7
Audi	Q5 (330)	3.2L V6 FSI	3.2 / 195	S6	4500	22.7000	30.7000	25.7
Audi	Q7 (320)	3.0L TDI	3.0 / 181	S8	6000	21.2000	36.0000	26.0
Audi	Q7 (320)	3.0L TFSI	3.0 / 183	S8	6000	19.2458	29.8077	22.9
Volkswagen	Tiguan 4MOTION (165)	2.0L TFSI	2.0 / 121	S6	4000	26.8566	37.4347	30.8
Volkswagen	Touareg (140)	3.0L TDI	3.0 / 181	S8	5000	23.4000	40.7000	28.9
Volkswagen	Touareg (140)	3.6L VR6 FSI	3.6 / 195	S8	5000	21.3000	31.6000	25.0
Volkswagen	Touareg Hybrid (145)	3.0L V6 (FSI Hybrid)	3.0 / 183	S8	5500	25.1000	33.1000	28.2
					Volkswagen Group Total Units			
					Unrounded Fleet CAFE			
					VWGoA Fleet CAFE (MPG)			

Ex. 4 - CBI

06/20/2017

2017-FFP_006498

To: Good, David[good.david@epa.gov]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Fri 5/31/2013 2:07:50 PM
Subject: 2012 VWGoA LDT and PC Final CAFE Reports
Final CAFE 2012 LDT to EPA .pdf
Final CAFE 2012 PC to EPA .pdf

Hello Dave;

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In a separate cover letter please find both Import and Domestic, Passenger Car category 2012 reports. This document has also been uploaded to the Verify compliance documents section.

If you have any questions, please feel free to call me.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

VOLKSWAGEN

GROUP OF AMERICA

Mr. Linc Wehrly
Compliance and Innovative Strategies Division
Light-Duty Vehicle Group
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Mr. Oliver Schmidt Name
General Manager Title
EEO Department
248 754 4201 Phone
248 754 4207 Fax
Oliver.Schmidt@vw.com E-Mail

May 30, 2013 Date

Subject: VOLKSWAGEN Group 2012 Final LDT CAFE Report

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

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The report has been successfully processed in and submitted through Verify. The Volkswagen Group reformed LDT CAFE standard is **26.9** MPG for the 2012 model year in accordance with 49 CFR 533.5 (h).

The final Volkswagen Group Import Truck CAFE value is **27.4** MPG.

If you have any questions or require additional information, please contact me or Richard Thomas of my staff at (248) 754-4213 or email Richard.Thomas@VW.com.

Sincerely,
VOLKSWAGEN Group of America, Inc.

Mr. Oliver Schmidt, General Manager
Engineering and Environmental Office

Attachments

2012 FINAL CAFE-IMPORT TRUCK
VOLKSWAGEN GROUP
MANUFACTURER AVERAGE CALCULATION

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$$\text{Import Average IAFE} = \frac{\text{TIPA}}{\sum_{MT=1}^{n} \frac{\text{IMT}}{\text{FEMT}}} = \textbf{27.4} \text{ MPG (unadjusted)}$$

IAFE	Average fuel economy of non-domestically produced trucks.
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n	Total number of model types imported (as applicable in a manufacturer's model year).

$$\text{IAFE (unadjusted)} = \frac{64{,}882}{2367.3435} = 27.4071 \text{ MPG}$$

VW FOIA, EPA

Brand	Carline	Engine	DISP	Trans	IW	CITY	HWY	ROUNDED COMB	SALES	Weighted Sales/MPG
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Audi	Q7 (320)	3.0L TDI	3.0 / 181	S8	6000	21.2000	36.0000	26.0	3,416	131.3846
Audi	Q7 (320)	3.0L TFSI	3.0 / 183	S8	6000	19.2458	29.8077	22.9	5,535	241.7031
Volkswagen	Tiguan 4MOTION (165)	2.0L TFSI	2.0 / 121	S6	4000	26.8566	37.4347	30.8	11,600	376.6234
Volkswagen	Touareg (140)	3.0L TDI	3.0 / 181	S8	5000	23.4000	40.7000	28.9	5,528	191.2803
Volkswagen	Touareg (140)	3.6L VR6 FSI	3.6 / 195	S8	5000	21.3000	31.6000	25.0	4,618	184.7200
Volkswagen	Touareg Hybrid (145)	3.0L V6 (FSI Hybrid)	3.0 / 183	S8	5500	25.1000	33.1000	28.2	305	10.8156
					Volkswagen Group Total Units				**64,882**	**2,367.3435**
					Unrounded Fleet CAFE				**27.4071**	
					VWGoA Fleet CAFE (MPG)				**27.4**	

06/20/2017

2017-FFP_006502

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Fri 5/31/2013 2:28:56 PM
Subject: VW Group 2.5L Cert Requests

Hello Jim,

I submitted the last of the 2.5L applications and the (4) Certificate Requests. These are the Federal-only versions.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Allen, Gregory[Gregory.Allen@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]; Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Giles, Michael (EEO)
Sent: Mon 6/3/2013 7:42:18 PM
Subject: RE: VW Group - 1.8L Test Information

Hello Jim,

I also submitted 2 decision information data sets for the Passat (BIN 5 test group EVWXV02.0B5F):

VID	Config	Trans
VW411-4-0166	**0**	**Manual**
VW411-4-0168	**0**	**Automatic**

Regards

Mike

From: Giles, Michael (EEO)
Sent: Monday, June 03, 2013 1:59 PM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Cc: Allen, Gregory; Thomas, Richard (EEO); Rodgers, William (EEO)
Subject: RE: VW Group - 1.8L Test Information

Hello Jim,

I just submitted Decision Information for the following Jetta 1.8L Models (both are in BIN 5 test group EVWXV02.0B5F):

VID	Config	Trans
VW361-4-0182	**0**	**Automatic**
VW361-4-0237	**0**	**Manual**

Later today I will send two Passat d.i's (Manual & automatic) for the same test group.

From: Rodgers, William (EEO)
Sent: Monday, June 03, 2013 10:51 AM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Cc: Giles, Michael (EEO); Allen, Gregory; Thomas, Richard (EEO)
Subject: VW Group - 1.8L Test Information

Hello Jim,

I have uploaded the 2014 Jetta 1.8L (Bin3/SULEV) Automatic and Manual transmission Fuel Economy Test Information and Decision Information files to Verify for the test group EVWXV02.03PA (yet to be certified). This represents the new base engine for Jetta at the start of 2014 production and replaces the 2.5L I-5 engine used for these models in prior model years.

Both vehicles require manufacturer confirmatory tests for FTP/HWY cycles for high fuel economy for the ETW. We would appreciate your consideration as soon as possible considering the short time before the start of production the first week of July.

VID: VW361-4-0194 config-0, Automatic Trans

VW361-5-0002 config-0, Manual Trans

Note – The fuel economy data for Passat 1.8L models in this test group will be processed in Verify today.

The fuel economy data for Jetta and Passat Federal-only 1.8L models will also be processed today.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Giles, Michael (EEO)[michael.giles@vw.com]
Cc: Allen, Gregory[Gregory.Allen@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]; Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Mon 6/3/2013 10:22:02 PM
Subject: RE: VW Group - 1.8L Test Information

Thanks for the clarifying information. It turned out there was a random in both groups.

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Monday, June 03, 2013 3:42 PM
To: Snyder, Jim
Cc: Allen, Gregory; Thomas, Richard (EEO); Rodgers, William (EEO)
Subject: RE: VW Group - 1.8L Test Information

Hello Jim,

I also submitted 2 decision information data sets for the Passat (BIN 5 test group EVWXV02.0B5F):

VID	Config	Trans
VW411-4-0166	**0**	**Manual**
VW411-4-0168	**0**	**Automatic**

Regards

Mike

From: Giles, Michael (EEO)
Sent: Monday, June 03, 2013 1:59 PM
To: "Jim Snyder" (Snyder.Jim@epamail.epa.gov)'
Cc: Allen, Gregory; Thomas, Richard (EEO); Rodgers, William (EEO)

Subject: RE: VW Group - 1.8L Test Information

Hello Jim,

I just submitted Decision Information for the following Jetta 1.8L Models (both are in BIN 5 test group EVWXV02.0B5F):

VID	Config	Trans
VW361-4-0182	**0**	**Automatic**
VW361-4-0237	**0**	**Manual**

Later today I will send two Passat d.i's (Manual & automatic) for the same test group.

From: Rodgers, William (EEO)
Sent: Monday, June 03, 2013 10:51 AM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Cc: Giles, Michael (EEO); Allen, Gregory; Thomas, Richard (EEO)
Subject: VW Group - 1.8L Test Information

Hello Jim,

I have uploaded the 2014 Jetta 1.8L (Bin3/SULEV) Automatic and Manual transmission Fuel Economy Test Information and Decision Information files to Verify for the test group EVWXV02.03PA (yet to be certified). This represents the new base engine for Jetta at the start of 2014 production and replaces the 2.5L I-5 engine used for these models in prior model years.

Both vehicles require manufacturer confirmatory tests for FTP/HWY cycles for high fuel economy for the ETW. We would appreciate your consideration as soon as possible considering

Ex. 4 - CBI

Ex. 4 - CBI

Note – The fuel economy data for Passat 1.8L models in this test group will be processed in Verify today.

The fuel economy data for Jetta and Passat Federal-only 1.8L models will also be processed today.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Glas, Tobias[Tobias.Glas@vw.com]
From: Sohacki, Lynn
Sent: Tue 6/4/2013 6:03:27 PM
Subject: Parameters Needed for Coastdown Testing
VW Tiguan coastdown parameters form.xlsx

Hi, Tobias.

EPA will be conducting some coastdown tests on a variety of vehicles over the next two weeks. A notification letter to VW is being prepared and a copy will be sent to you shortly. However, because the testing is scheduled to start next week I am sending a request for parameters in advance of the notification letter. I apologize for the late notice.

Please let me know if you have any questions.

Regards,

Lynn Sohacki

Compliance Division

Environmental Protection Agency

734-214-4851

734-214-4869 fax

National Vehicle and Fuel Emissions Laboratory
2565 Plymouth Road, Ann Arbor, Michigan 48105

EPA Parameters Form for In-Use Coastdown Testing

EPA Vehicle Control Number: WVGAV3AX3DW559625 VW Tiguan

Equivalent Test Weight: _____ Pounds (Integer Only: Equivalent Test Weight)

Nominal Fuel Tank Capacity: _____ Gallons **40% Fill** _____ Gallons

Curb Weight _____

Drive axle weight w/ full tank of fuel _____

Drive Axle: _____

Coefficient of Drag (C_D): _____ **Frontal Area:** _____

Tread Depth _____ (original OEM tire spec)

Suspension Height **LF** _____ **RF** _____ (please specify measurement proceedure)
LR _____ **RR** _____ (may be submitted at a later time if not availible by June 29th)

Mfr. Shift Schedule (if required) _____ FTP _____ HWY _____ US06

Vehicle Target Road-Load Coefficients

A _____ Lb-force

B _____ Lb-force/mph

C _____ Lb-force/mph^2

Canister Working Capacity:

_____ Grams (Integer Only: Canister Working Capacity)

_____ Number of Canisters (Integer Only: Number of Canisters)

_____ Total Canister Volume (cm3)

Does this vehicle qualify for relaxed in-use standards as set forth in 40 CFR 86.1811-04(p)? _____**(Y/N)**

Vehicle Starting Instructions, including Traction Control disabling:

To avoid unnecessary delays, please provide specific instructions and pictures (if necessary) for the following items:

Canister Loading Process:

Fuel Draining Process:

ABS Disabling Process:

Fuel Switch Process (Flex Fuel only):

Comments:

For internal EPA Use Only:

This information was obtained from:

* Letter, e-mail, fax or other document delivered from the manufacturer
  (attach any additional information from the manufacturer to this form)
* Verbal instruction from the manufacturer's representative
* Other (specify)

Manufacturer Representative: _____ *Date:* _____

URS Representative: _____ *Date:* _____

EPA Representative: _____ *Date:* _____

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 6/5/2013 2:35:53 PM
Subject: VW Group - Certificate Request EVWXV02.03PA

Hello Jim,

I uploaded the Application and Conditional Certificate Request for the Volkswagen test group EVWXV02.03PA (Bin 3/SULEV). This is a carryover test group from 2013 with the addition of 1.8L engines and related models. It is a conditional certificate request because there are EPA and Manufacturer confirmatory tests pending for FEDV models only. There is no change to the worst case data.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Snyder, Jim
Sent: Wed 6/5/2013 9:37:09 PM
Subject: Audi EADXJ02.0FUB fee payment

Engine Family	Request Type	Manufacturer	Amount ($)	Date Cleared by Bank	Date Posted by EPA	Fee Type	Payment Type	Payment Identifier
EADXJ03.0	3UF	Audi	29,848.00	05/23/2013	05/30/2013	REGULAR	RCH	
EADXJ03.0	4UG	Audi	32,678.00	12/05/2012	12/13/2012	REGULAR	RCH	
EADXT02.0	EUB	Audi	29,848.00	05/23/2013	05/30/2013	REGULAR	RCH	
EADXT03.0	2UG	Audi	29,848.00	03/08/2013	03/11/2013	REGULAR	WIRE	
EADXT03.0	3UG	Audi	29,848.00	04/27/2013	05/01/2013	REGULAR	RCH	
EADXT03.0	1LF	Audi	29,848.00	04/29/2013	04/30/2013	REGULAR	WIRE	
EADXV02.0	3UA	Audi	29,848.00	04/22/2013	04/23/2013	REGULAR	RCH	
EADXV02.0	3UB	Audi	29,848.00	04/22/2013	04/23/2013	REGULAR	RCH	
EADXV04.0	3UJ	Audi	29,848.00	04/22/2013	04/23/2013	REGULAR	RCH	
EADXV04.2	375	Audi	32,678.00	12/05/2012	12/12/2012	REGULAR	RCH	
EADXV04.2	3UL	Audi	29,848.00	04/29/2013	04/30/2013	REGULAR	RCH	
EADXV05.2	DR8	Audi	32,678.00	12/05/2012	12/12/2012	REGULAR	RCH	

Ex. 4 - CBI

Bill, Richard I was looking thru the Audi Cert requests and noticed the 2nd test group , EADXJ02.0FUB, doesn't show payment. Here is what is shown paid. Do you know when payment was submitted?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: VandenBroek, Willem[vandenbroek.willem@epa.gov]; Rodgers, William (EEO)[William.Rodgers@vw.com]; Stump, Barbara[Stump.Barbara@epa.gov]
From: Thomas, Richard (EEO)
Sent: Thur 6/6/2013 11:45:08 AM
Subject: RE: Audi EADXJ02.0FUB fee payment
May 23 Audi payments.pdf
2014 EPA Cert Fees EADXJ02.0FUB EADXT02.0HUB EADXJ03.03UF to EPA.pdf

Hi Jim;

Ex. 4 - CBI

Bill; should I send all three fee filing forms to St Louis, or just the missing test group?

I have attached our accounting department list of cleared vendor items from that transfer for you review.

This EADXJ02.0FUB test group has become a hot item here due to a now even earlier port release date.

If you have any questions please call.

Thanks,

Richard

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Wednesday, June 05, 2013 5:37 PM

To: Rodgers, William (EEO); Thomas, Richard (EEO)
Subject: Audi Ex. 4 - CBI fee payment

Engine Family	Request Type	Manufacturer	Amount ($)	Date Cleared by Bank	Date Posted by EPA	Fee Type	Payment Type	Payment Identifier
EADXJ03.0130UF		Audi	29,848.00	05/23/2016	05/30/2016	REGULAR	CH	
EADXJ03.0140UG		Audi	32,678.00	12/05/2012	12/13/2012	REGULAR	CH	
EADXT02.0HUB		Audi	29,848.00	05/23/2016	05/30/2016	REGULAR	CH	
EADXT03.0120UG		Audi	29,848.00	03/08/2016	03/11/2016	REGULAR	WIRE	
EADXT03.0130UG		Audi	29,848.00	04/27/2012	03/01/2016	REGULAR	CH	
EADXT03.01TLF		Audi	29,848.00	04/29/2016	04/30/2016	REGULAR	WIRE	
EADXV02.0130UA		Audi	29,848.00	04/22/2016	04/23/2016	REGULAR	CH	
EADXV02.0130UB		Audi	29,848.00	04/22/2016	04/23/2016	REGULAR	CH	
EADXV04.0130UJ		Audi	29,848.00	04/22/2016	04/23/2016	REGULAR	CH	
EADXV04.2B75		Audi	32,678.00	12/05/2012	12/12/2012	REGULAR	CH	
EADXV04.2130UL		Audi	29,848.00	04/29/2016	04/30/2016	REGULAR	CH	
EADXV05.21DR8		Audi	32,678.00	12/05/2012	12/12/2012	REGULAR	CH	

Ex. 4 - CBI

Bill, Richard I was looking thru the Audi Cert requests and noticed the 2nd test group , EADXJ02.0FUB, doesn't show payment. Here is what is shown paid. Do you know when payment was submitted?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

U.S. Environmental Protection Agency
Motor Vehicle and Engine Compliance Program

On-Highway Fee Filing Form

For Certification Applications Received In Calendar Year 2013

Manufacturer Name VOLKSWAGEN Group of America, Inc.

Address 3800 Hamlin Road

City/State/Zip Code/Country Auburn Hills, MI 48326

On-Highway Certification Request Type (check one)

- [x] LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL ($29,848)
- [ ] LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY ($15,704)
- [ ] HDE (Engine Dyno cert) FEDERAL ($44,215)
- [ ] HDV EVAP-ONLY ($563)
- [ ] HDE CALIF-ONLY ($563)
- [ ] MOTORCYCLE ($1,427)
- [ ] LD/MDPV/HDV ICI ($68,737)

EPA standard family or test group: EADXJ02.0FUB

Amount paid (U.S. Funds Only): $ 29,848.00

Enter the check number, or the statement "WIRE" or "ACH": EFT

Reduced Fee Section (40 CFR §1027.120)

Reduced fee calculation (minimum initial payment $750): Total number of vehicles/units covered: ___

Aggregate retail sales price of the vehicles/units: $ _____ **x 1% = $** _____

Check box if an Independent Commercial Importer: [ ] **List the VIN of imported vehicles/engines below:**

Company Representative: Richard E. Thomas Signature: RE Thomas

Title: Emission Cert Stratagist Phone/Fax: 248 754 4213 / 248 754 4207 Date: 05/02/2013

E-mail Address:

Submission of payments and forms:

(1) Online: **Forms** may be found and submitted with or without **payments** online at www.Pay.gov.

(2) By mail: For check payments only, send **checks** and this **form** to:

Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
P.O. Box 979032
St. Louis, MO 63197-9000

(3) Transmit offline Wire **payments** to the New York Federal Reserve Bank. (See Instructions, p.2)

(4) Transmit offline ACH **payments** to the Federal Reserve Bank of Cleveland. (Instructions, p.2)

(5) **Forms** not submitted under (1) and (2) above can be sent as email attachments to Fees@epa.gov.

Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.

This form expires: 1/1/2014

U.S. Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
On-Highway Fee Filing Form
For Certification Applications Received In Calendar Year 2013

Manufacturer Name: VOLKSWAGEN Group of America, Inc.

Address: 3800 Hamlin Road

City/State/Zip Code/Country: Auburn Hills, MI 48326

On-Highway Certification Request Type (check one)

- [x] **LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL ($29,848)**
- [ ] **LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY ($15,704)**
- [ ] **HDE (Engine Dyno cert) FEDERAL ($44,215)**
- [ ] **HDV EVAP-ONLY ($563)**
- [ ] **HDE CALIF-ONLY ($563)**
- [ ] **MOTORCYCLE ($1,427)**
- [ ] **LD/MDPV/HDV ICI ($68,737)**

EPA standard family or test group: EADXT02.0HUB

Amount paid (U.S. Funds Only): $ 29,848.00

Enter the check number, or the statement "WIRE" or "ACH": EFT

Reduced Fee Section (40 CFR §1027.120)

Reduced fee calculation (minimum initial payment $750): Total number of vehicles/units covered: ___

Aggregate retail sales price of the vehicles/units: $ _____ **x 1% = $** _____

Check box if an Independent Commercial Importer: [ ] **List the VIN of imported vehicles/engines below:**

Company Representative: Richard E. Thomas Signature: R E Thomas

Title: Emission Cert Stratagist Phone/Fax: 248 754 4213 / 248 754 4207 Date: 05/02/2013

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EPA

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Motor Vehicle and Engine Compliance Program
On-Highway Fee Filing Form
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Address 3800 Hamlin Road

City/State/Zip Code/Country Auburn Hills, MI 48326

On-Highway Certification Request Type (check one)

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- [ ] **HDV EVAP-ONLY ($563)**
- [ ] **HDE CALIF-ONLY ($563)**
- [ ] **MOTORCYCLE ($1,427)**
- [ ] **LD/MDPV/HDV ICI ($68,737)**

EPA standard family or test group: EADXJ03.03UF

Amount paid (U.S. Funds Only): $ 29,848.00

Enter the check number, or the statement "WIRE" or "ACH": EFT

Reduced Fee Section (40 CFR §1027.120)

Reduced fee calculation (minimum initial payment $750): Total number of vehicles/units covered: ___

Aggregate retail sales price of the vehicles/units: $ _____ **x 1% = $** _____

Check box if an Independent Commercial Importer: [ ] **List the VIN of imported vehicles/engines below:**

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Title: Emission Cert Stratagist Phone/Fax: 248 754 4213 / 248 754 4207 Date: 05/02/2013

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(4) Transmit offline ACH **payments** to the Federal Reserve Bank of Cleveland. (Instructions, p.2)

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Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.

This form expires: 1/1/2014

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; VandenBroek, Willem[vandenbroek.willem@epa.gov]
From: Stump, Barbara
Sent: Thur 6/6/2013 1:27:07 PM
Subject: RE: Audi EADXJ02.0FUB fee payment

Mr. Thomas,

We did receive the fee filing forms for the test groups EADXT02.0HUB and EADXJ03.03UF and they have been submitted and listed as paid. You should have received an email confirmation on 5/30/13. I will submit the test group EADXJ02.0FUB into our fees system today and you should receive an email confirmation later this afternoon.

If you have any other questions or concerns, please let me know.

Sincerely,

Barbara Stump

USEPA Compliance Division
MVECP Fees
734-214-4256

From: Thomas, Richard (EEO)
Sent: Thursday, June 06, 2013 7:45 AM
To: Snyder, Jim
Cc: VandenBroek, Willem; Rodgers, William (EEO); Stump, Barbara
Subject: RE: Audi EADXJ02.0FUB fee payment

Hi Jim;

The payment for three Audi Test Groups: EADXT02.0HUB, EADXJ02.0FUB and

Ex. 4 - CBI I have attached the fee filing forms here for all three if they were not received. I never got any payment receipts for Ex. 4 - CBI but they are now both certified. It may be that that Saint Louis never got the fee filing forms and that's why I didn't get a receipt.

Bill; should I send all three fee filing forms to St Louis, or just the missing test group?

I have attached our accounting department list of cleared vendor items from that transfer for you review.

This Ex. 4 - CBI test group has become a hot item here due to a now even earlier port release date.

If you have any questions please call.

Thanks,

Richard

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Wednesday, June 05, 2013 5:37 PM
To: Rodgers, William (EEO); Thomas, Richard (EEO)
Subject: Ex. 4 - CBI fee payment

Engine Family	Request Type	Manufacturer	Amount ($)	Date Cleared by Bank	Date Posted by EPA	Fee Type	Payment Type	Payment Identifier
Ex. 4 - CBI								

Ex. 4 - CBI

Bill, Richard I was looking thru the Audi Cert requests and noticed the 2nd test group , Ex. 4 - CBI doesn't show payment. Here is what is shown paid. Do you know when payment was submitted?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Thur 6/6/2013 10:37:06 PM
Subject: 2013-2014 FE Guide data attached
VW_Group_2013-2014 FEGuide-all rel dates-no-sales-6-6-2013.xlsx

Richard,

I ran the macro on the data in verify. I haven't had time to edit out some of the errors---e.g. sales equal to or less than 5 vehicles, etc.

Also---I just noticed that I included 2013 and 2014 labels---the 2013 labels looked pretty clean at first glance. Here you go.

To: Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Glas, Tobias
Sent: Fri 6/7/2013 3:45:10 PM
Subject: RE: Parameters Needed for Coastdown Testing
Copy of VW Tiguan coastdown parameters form.xlsx

Hi Lynn !

Here are the data for the coast down test.

If you need any more information, please let me know.

Is it possible to get any more details about the testing (which cars, where etc.)?

Have a nice weekend !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Tuesday, June 04, 2013 2:03 PM
To: Glas, Tobias
Subject: Parameters Needed for Coastdown Testing

Hi, Tobias.

EPA will be conducting some coastdown tests on a variety of vehicles over the next two weeks. A notification letter to VW is being prepared and a copy will be sent to you shortly. However, because the testing is scheduled to start next week I am sending a request for parameters in advance of the notification letter. I apologize for the late notice.

Please let me know if you have any questions.

Regards,

Lynn Sohacki

Compliance Division

Environmental Protection Agency

734-214-4851

734-214-4869 fax

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Fri 6/7/2013 4:26:56 PM
Subject: re: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013
VW_Group_2014 FEGuide-all rel dates-no-sales-6-4-2013.xlsx

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

Attached are the data in Verify as of June 4, 2013. Labels with pea green fill in the first few columns have errors which need to be corrected before I can have the data posted on www.fueleconomy.gov.

This dataset was run before the one I sent you yesterday---but I reviewed this one (column by column). It should have about the same errors as the one I sent you yesterday.

The next normal posting of 2014 FE Label data will be on June 18, 2013 or so (on a monthly schedule where I run the query on the 1st and 15th of the month—plus I'm out of the office on June 17th). If you need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Glas, Tobias[Tobias.Glas@vw.com]
From: Sohacki, Lynn
Sent: Fri 6/7/2013 5:25:02 PM
Subject: RE: Parameters Needed for Coastdown Testing
Coastdown - VW Tiguan -6-14-13.pdf

Hi, Tobias.

Thanks for the parameters. I will attach a copy of the official notification letter sent to Dennis Reineke.

The testing will take place between June 10 and 21 at Chrysler's Chelsea Proving Grounds in Chelsea, MI. We will be testing several makes and models of vehicles of which the Tiguan is one. I've received notification that this Tiguan has a cracked windshield and is awaiting a new one. Apparently, the dealership is having a hard time getting a replacement but we hope that the replacement will take place in time for us to test this vehicle. If not, I may need to ask you for parameters for another vehicle.

Have a nice weekend.

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Friday, June 07, 2013 11:45 AM
To: Sohacki, Lynn
Subject: RE: Parameters Needed for Coastdown Testing

Hi Lynn !

Here are the data for the coast down test.

If you need any more information, please let me know.

Is it possible to get any more details about the testing (which cars, where etc.)?

Have a nice weekend !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Tuesday, June 04, 2013 2:03 PM
To: Glas, Tobias
Subject: Parameters Needed for Coastdown Testing

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Please let me know if you have any questions.

Regards,

Lynn Sohacki

Compliance Division

Environmental Protection Agency

734-214-4851

734-214-4869 fax

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

OFFICE OF
AIR AND RADIATION

June 4, 2013

Mr. Dennis Reineke
Volkswagen of America
3800 Hamlin Rd.,
Auburn Hills, Michigan 48326

Dear Dennis;

The Environmental Protection Agency plans to include a VW Tiguan in its coast down surveillance testing program. The testing is tentatively scheduled for the week ending June 14, 2013.

A 2013 model year, low mileage vehicle will be procured and it will be ballasted to the proper weight. Maintenance will consist of an under-hood inspection and a wheel alignment, if necessary.

Coast down testing will take place on a track. Once the dyno coefficients have been established, the vehicle may also undergo a federal test procedure and highway cycle.

If you have any questions please contact me at (734) 214-4851.

Sincerely,

Lynn Sohacki

Lynn Sohacki
Compliance Division

VW FOIA, EPA 06/20/2017 2017-FFP_006529

To: Good, David[good.david@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Fri 6/7/2013 5:39:34 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

Hi Dave;

I think I have all these corrections made now. If you like to run it again please give me a copy of the 2014 models. I understand that many of the Audi models will be released next week.

Thanks, have a nice weekend.

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Friday, June 07, 2013 12:27 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: re: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

Attached are the data in Verify as of June 4, 2013. Labels with pea green fill in the first few columns have errors which need to be corrected before I can have the data posted on www.fueleconomy.gov.

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need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections when you get a chance.

Thanks

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Fri 6/7/2013 10:35:27 PM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013
VW_Group_2014 FEGuide-all rel dates-no-sales-6-7-2013.xlsx

Richard,

Here you go.

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Friday, June 07, 2013 1:40 PM
To: Good, David
Cc: Snyder, Jim
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

Hi Dave;

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Richard

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Sent: Friday, June 07, 2013 12:27 PM
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Please make any needed corrections when you get a chance.

Thanks

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Mon 6/10/2013 9:59:46 AM
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

Thanks Dave.

From: Good, David [mailto:good.david@epa.gov]
Sent: Friday, June 07, 2013 6:35 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

Richard,

Here you go.

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Friday, June 07, 2013 1:40 PM
To: Good, David
Cc: Snyder, Jim
Subject: RE: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

Hi Dave;

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Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Friday, June 07, 2013 12:27 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: re: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of June 4, 2013

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Please make any needed corrections when you get a chance.

Thanks

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Kata, Leonard (EEO)[Leonard.Kata@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Mon 6/10/2013 2:56:17 PM
Subject: VW Group - Test group EVWXV02.03PA

Hi Jim,

There has been an unexpected delay in getting the ARB OBD approval for certain models included in the OBD approval letter, dated June 4, 2013, and found in the 2014 Certification Application for Test group EVWXV02.03PA. As the result, the current OBD approval is currently only valid for the VW CC models.

Please process a Certificate of Conformity as soon as possible for the VW CC, Evap family: EVWXR0125P4D. We will process a running change letter and Certificate request at a later date to include the remaining models for the test group. A will also follow up with you by phone.

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Fees[Fees@epa.gov]
Cc: Stump, Barbara[Stump.Barbara@epa.gov]; VandenBroek, Willem[vandenbroek.willem@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]; Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Thomas, Richard (EEO)
Sent: Thur 6/13/2013 12:55:51 PM
Subject: 2014 Volkswagen Certification Fees
2014 EPA Cert Fees EVWXV01.4PHE to EPA.pdf

Please find attached the fee filing for the **Ex. 4 - CBI** Fees **Ex. 4 - CBI** were electronically transferred today June 13th, and should be available in the EPA account tomorrow.

If you have any questions, please contact me directly.

Regards,

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

U.S. Environmental Protection Agency
Motor Vehicle and Engine Compliance Program

On-Highway Fee Filing Form

For Certification Applications Received In Calendar Year 2013

Manufacturer Name: VOLKSWAGEN Group of America, Inc.

Address: 3800 Hamlin Road

City/State/Zip Code/Country: Auburn Hills, MI 48326

On-Highway Certification Request Type (check one)

- [x] LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL ($29,848)
- [ ] LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY ($15,704)
- [ ] HDE (Engine Dyno cert) FEDERAL ($44,215)
- [ ] HDV EVAP-ONLY ($563)
- [ ] HDE CALIF-ONLY ($563)
- [ ] MOTORCYCLE ($1,427)
- [ ] LD/MDPV/HDV ICI ($68,737)

EPA standard family or test group: EVWXV01.4PHE

Amount paid (U.S. Funds Only): $ 29,848.00

Enter the check number, or the statement "WIRE" or "ACH": EFT

Reduced Fee Section (40 CFR §1027.120)

Reduced fee calculation (minimum initial payment $750): Total number of vehicles/units covered: ___

Aggregate retail sales price of the vehicles/units: $ _____ **x 1% = $** _____

Check box if an Independent Commercial Importer: ☐ **List the VIN of imported vehicles/engines below:**

Company Representative: Richard E. Thomas Signature: R E Thomas

Title: Emission Cert Stratagist Phone/Fax: 248 754 4213 / 248 754 4207 Date: 06/11/2013

E-mail Address:

Submission of payments and forms:

(1) Online: **Forms** may be found and submitted with or without **payments** online at www.Pay.gov.

(2) By mail: For check payments only, send **checks** and this **form** to:

Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
P.O. Box 979032
St. Louis, MO 63197-9000

(3) Transmit offline Wire **payments** to the New York Federal Reserve Bank. (See Instructions, p.2)

(4) Transmit offline ACH **payments** to the Federal Reserve Bank of Cleveland. (Instructions, p.2)

(5) **Forms** not submitted under (1) and (2) above can be sent as email attachments to Fees@epa.gov.

Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.

This form expires: 1/1/2014

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Thur 6/13/2013 1:52:10 PM
Subject: RE: 2014 Volkswagen Certification Fees

FYI, I'm in the office all day today. I don't see a cert request for this test group yet. Is it something in the near future?

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Thursday, June 13, 2013 8:56 AM
To: Fees
Cc: Stump, Barbara; VandenBroek, Willem; Snyder, Jim; Rodgers, William (EEO)
Subject: 2014 Volkswagen Certification Fees

Please find attached the fee filing for the 2014 Jetta Hybrid, test group EVWXV01.4PHE. Fees ($29,848) were electronically transferred today June 13th, and should be available in the EPA account tomorrow.

If you have any questions, please contact me directly.

Regards,

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Thur 6/13/2013 1:56:37 PM
Subject: RE: 2014 Volkswagen Certification Fees

Hi Jim,

Ex. 4 - CBI

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, June 13, 2013 9:52 AM
To: Thomas, Richard (EEO)
Cc: Rodgers, William (EEO)
Subject: RE: 2014 Volkswagen Certification Fees

FYI, I'm in the office all day today. I don't see a cert request for this test group yet. Is it something in the near future?

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Thursday, June 13, 2013 8:56 AM
To: Fees
Cc: Stump, Barbara; VandenBroek, Willem; Snyder, Jim; Rodgers, William (EEO)
Subject: 2014 Volkswagen Certification Fees

Please find attached the fee filing for the Ex. 4 - CBI Fees Ex. 4 - CBI were electronically transferred today June 13th, and should be available in the EPA account tomorrow.

If you have any questions, please contact me directly.

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3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Giles, Michael (EEO)[michael.giles@vw.com]; Mazaitis, Vincent[mazaitis.vincent@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Snyder, Jim
Sent: Thur 6/13/2013 2:41:37 PM
Subject: RE: VW Group - Audi Test Thursday 6/20

I'll talk to lab about arranging something.

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Thursday, June 13, 2013 10:32 AM
To: Mazaitis, Vincent; Snyder, Jim
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory
Subject: VW Group - Audi Test Thursday 6/20

Hello Vince or Jim,

We have a new certification team employee, Greg Allen, who will come to EPA next week to witness the start of the SQ5 test on Thursday 6/20. Would you be able to arrange a lab tour similar to what we have done before? Tobias Glas may also be there so it would be a 2 at most for the tour.

Thanks,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]; Mazaitis, Vincent[mazaitis.vincent@epa.gov]; Haynes, Ben[haynes.ben@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Giles, Michael (EEO)
Sent: Fri 6/14/2013 1:44:30 PM
Subject: RE: VW Group - Audi Test Thursday 6/20

Hello Jim, Vince and Ben,

Just a reminder that we plan to deliver the Audi SQ5 Monday morning. We should be at EPA around 10:00 am.

Thanks

Mike

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, June 13, 2013 10:42 AM
To: Giles, Michael (EEO); Mazaitis, Vincent
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory
Subject: RE: VW Group - Audi Test Thursday 6/20

I'll talk to lab about arranging something.

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Thursday, June 13, 2013 10:32 AM
To: Mazaitis, Vincent; Snyder, Jim
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory
Subject: VW Group - Audi Test Thursday 6/20

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Thanks,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Glas, Tobias[Tobias.Glas@vw.com]
From: Sohacki, Lynn
Sent: Mon 6/17/2013 12:12:25 PM
Subject: RE: Notificaiton of EPA In-use class S146

Good morning, Tobias.

We will not need the defueling process unless we do emissions test on the vehicle. At that time I'll let you know that we need the instructions.

There is a chance that I'll be in Chelsea on Thursday but if I'm in Ann Arbor I'd enjoy a chance to meet you. Do you know when you will be here? I'm usually back in the office in the afternoon. Hopefully we can meet.

Have a good day!

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Monday, June 17, 2013 8:07 AM
To: Sohacki, Lynn
Subject: RE: Notificaiton of EPA In-use class S146

Hi Lynn !

I hope you had a great weekened !

Please let me know what kind of information you need for testing these cars and when you need that information.

For example the defueling procedure, do you need it upfront or is it ok when we bring the information when we have a chance to inspect the cars ?

I'm gonna be at EPA this Thursday because one of our certification vehicles will be tested, maybe you have a couple of minutes to say hello.

Thanks for your help!

Best regards

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Friday, May 17, 2013 4:41 PM
To: Glas, Tobias
Subject: Notificaiton of EPA In-use class S146

Hi, Tobias.

Attached is a copy of the letter sent to your company announcing the selection of class S146. The estimated start date is the week ending June 28, 2013.

Please let me know if you have any questions.

Thanks,

Lynn Sohacki

Compliance Division

Environmental Protection Agency

734-214-4851

734-214-4869 fax

To: Glas, Tobias[Tobias.Glas@vw.com]
From: Sohacki, Lynn
Sent: Mon 6/17/2013 6:53:40 PM
Subject: RE: Notificaiton of EPA In-use class S146

Hi, Tobias.

Yes, we got it ready and started testing today.

Please give me a call on Thursday when you are free.

Regards,

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Monday, June 17, 2013 8:20 AM
To: Sohacki, Lynn
Subject: RE: Notificaiton of EPA In-use class S146

Hi Lynn !

It depends what time the testing is done on Thursday. I'll let you know as soon as I have the information.

Did you get the Tiguan ready for the coastdown testing in Chelsea ?

Best regards

Tobias

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Monday, June 17, 2013 8:12 AM
To: Glas, Tobias
Subject: RE: Notificaiton of EPA In-use class S146

Good morning, Tobias.

We will not need the defueling process unless we do emissions test on the vehicle. At that time I'll let you know that we need the instructions.

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Thanks for your help!

Best regards

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Friday, May 17, 2013 4:41 PM
To: Glas, Tobias
Subject: Notificaiton of EPA In-use class S146

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Thanks,

Lynn Sohacki

Compliance Division

Environmental Protection Agency

734-214-4851

734-214-4869 fax

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 6/19/2013 5:44:47 PM
Subject: RE: 2012 CAFE/GHG report - Question about 2012 Bentley Continental Supersports model

Hi Dave;

I just checked again, **Ex. 4 - CBI** I eliminated that index (15).

One question for you today, do you think the two test groups Jim passed up for signature will be

Ex. 4 - CBI

yet. Is it Linc that has these certificates now?

Thanks,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, June 19, 2013 1:32 PM
To: Thomas, Richard (EEO)
Subject: 2012 CAFE/GHG report - Question about 2012 Bentley Continental Supersports model

Richard,

Re: 2012 CAFE/GHG report - Question about 2012 Bentley Continental Supersports model

I'm working on the 2012 gas guzzlers.

Ex. 4 - CBI

I this a mistake in the CAFE/GHG data input or were there no sales of this model?

Thanks

To: Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Glas, Tobias
Sent: Wed 6/19/2013 5:52:07 PM
Subject: FW: VW Group - Audi Test Thursday 6/20

Hi Lynn !

I'll be there tomorrow at 8am and give you a call. I hope we can meet.

See you tomorrow!

Tobias

248 494 1537

From: Mazaitis, Vincent [mailto:mazaitis.vincent@epa.gov]
Sent: Wednesday, June 19, 2013 1:43 PM
To: Giles, Michael (EEO); Snyder, Jim
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory; Spieth, John
Subject: RE: VW Group - Audi Test Thursday 6/20

Hello Mike,

Sorry for getting back to you late!

I've arranged a lab tour tomorrow after 10:00 am. If you would have Tobias and Greg here by around 8:00 am for the start of the FTP that would be great. John Spieth will conduct the tour. He has a meeting early, that's why there is a delay for the tour.

If there are any questions or concerns, please contact me. I'll inform Security they will arrive about 8.

Thanks for your patience Mike!

Vince Mazaitis

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Wednesday, June 19, 2013 8:34 AM
To: Snyder, Jim; Mazaitis, Vincent
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory
Subject: RE: VW Group - Audi Test Thursday 6/20

Hi Jim,

Any feedback from the lab about a tour for Thursday?

Thanks

Mike

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, June 13, 2013 10:42 AM
To: Giles, Michael (EEO); Mazaitis, Vincent
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory
Subject: RE: VW Group - Audi Test Thursday 6/20

I'll talk to lab about arranging something.

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Thursday, June 13, 2013 10:32 AM
To: Mazaitis, Vincent; Snyder, Jim
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory
Subject: VW Group - Audi Test Thursday 6/20

Hello Vince or Jim,

We have a new certification team employee, Greg Allen, who will come to EPA next week to witness the start of the SQ5 test on Thursday 6/20. Would you be able to arrange a lab tour similar to what we have done before? Tobias Glas may also be there so it would be a 2 at most for the tour.

Thanks,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Wed 6/19/2013 10:04:30 PM
Subject: re: 2014 FE Guide - Errors in EPA's data base as of June 18, 2013
VW_Group_2014 FEGuide-all rel dates-no-sales-6-18-2013.xlsx

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of June 18, 2013

Attached are the data in Verify as of June 18, 2013. Labels with pea green fill in the first few columns have errors which need to be corrected before I can have the data posted on www.fueleconomy.gov.

The next normal posting of 2014 FE Label data will be on July 2, 2013 or so (on a monthly schedule where I run the query on the 1st and 15th of the month—plus I'm out of the office on July 1st). If you need an important 2014 FE Label posted on the web before that time, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections to Verify when you get a chance.

Thanks

To: Giles, Michael (EEO)[michael.giles@vw.com]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]; Snyder, Jim[Snyder.Jim@epa.gov]
From: Mazaitis, Vincent
Sent: Thur 6/20/2013 7:01:44 PM
Subject: Laboratory Test Data for E3UF-SQ5 (Hwy/US06)
E3UF-SQ5_6-20-13.pdf

Hello Mike,

Please find enclosed the Hwy & US06 Laboratory Test Data for E3UF-SQ5.

If you have any questions or concerns, please contact me.

Thanks Mike,

Vince Mazaitis

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Wednesday, June 19, 2013 1:49 PM
To: Mazaitis, Vincent; Snyder, Jim
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory; Spieth, John
Subject: RE: VW Group - Audi Test Thursday 6/20

Thanks Vince, Tobias and Greg will be there at 8:00 sharp.

From: Mazaitis, Vincent [mailto:mazaitis.vincent@epa.gov]
Sent: Wednesday, June 19, 2013 1:43 PM
To: Giles, Michael (EEO); Snyder, Jim
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory; Spieth, John
Subject: RE: VW Group - Audi Test Thursday 6/20

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Subject: RE: VW Group - Audi Test Thursday 6/20

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Sent: Thursday, June 13, 2013 10:32 AM
To: Mazaitis, Vincent; Snyder, Jim
Cc: Rodgers, William (EEO); Glas, Tobias; Allen, Gregory
Subject: VW Group - Audi Test Thursday 6/20

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Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

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3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]; Rodgers, William (EEO)[William.Rodgers@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]
Cc: Ball, Joel[ball.joel@epa.gov]
From: Snyder, Jim
Sent: Thur 6/20/2013 9:14:19 PM
CAM00890 (Large).jpg
CAM00892 (Large).jpg
CAM00881 (Large).jpg
CAM00886 (Large).jpg

Richard, I left you a voice mail about a vehicle we have that has a tire size that's not listed in the Cert Application. Can one of you see what the story is? It's a rental VW Tiquan, 2WD with 215/65 17 Pirelli Scorpion STR tires. See attached pics. They aren't listed in the Common section , is it in the FE database? Tobias (I'm guessing) gave Lynn some road load coefficents but they are probably for a different tire. We'd like to know the correct Road load coefficients.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

TIRE AND LOADING INFORMATION
RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT

SEATING CAPACITY/NOMBRE DE PLACES | TOTAL 5 | FRONT/AVANT 2 | REAR/ARRIÈRE 3

THE COMBINED WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED
LE POIDS TOTAL DES OCCUPANTS ET DU CHARGEMENT NE DOIT JAMAIS DEPASSER 520 KG OR 1145 LBS
KG OU LB

TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DE PNEUS A FROID
FRONT/AVANT	215/65 R16	240 KPA, 35 PSI
REAR/ARRIERE	215/65 R16	240 KPA, 35 PSI
SPARE/DE SECOURS	T145/80 R18	415 KPA, 61 PSI

SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION

VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS

5N0 010 798 T

VOLKSWAGEN
VEHICLE EMISSION CONTROL INFORMATION

Conforms to regulations:			2013 MY
U.S. EPA:	T2B5 LDV	OBD: CA II	Fuel: Gasoline
California:	ULEV II PC	OBD: CA II	Fuel: Gasoline
No adjustments needed.		DFI/TWC(2)/HO2S(2)/CAC/TC	

Group: DVWXJ02.03UA
Evap: DVWXR0125241

701 010 690 B

828 010 190


PIRELLI
P ZERO



Ex. 6

To: Glas, Tobias[Tobias.Glas@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]; Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Ball, Joel[ball.joel@epa.gov]
From: Snyder, Jim
Sent: Thur 6/20/2013 10:00:34 PM
Subject: RE:

Yes, you are correct, I did a typo. That's why I like photos.

We still have the vehicle. I won't be in Friday but you can contact Lynn or Joel Ball if you need more info off of it.

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Thursday, June 20, 2013 5:31 PM
To: Snyder, Jim; Thomas, Richard (EEO); Rodgers, William (EEO)
Cc: Ball, Joel
Subject: RE:

Hi Jim !

Just for clarification, the picture shows a Pirelli 215/65 R**16** but in the email you mention 215/65 17.

So I guess it is a 265/65 R**16?**

Thanks!

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, June 20, 2013 5:14 PM
To: Thomas, Richard (EEO); Rodgers, William (EEO); Glas, Tobias
Cc: Ball, Joel
Subject:

Ex. 4 - CBI

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Glas, Tobias
Sent: Fri 6/21/2013 1:17:35 PM
Subject: RE: Parameters Needed for Coastdown Testing

Hi Lynn !

It was good talking to you ! I read the AC 55B and that is what I understand when it comes to tolerances on the Road coefficients:

Ex. 4 - CBI

Please let me know if I understood that right.

Thanks and have a good weekend !

Tobias

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Friday, June 07, 2013 1:25 PM
To: Glas, Tobias
Subject: RE: Parameters Needed for Coastdown Testing

Hi, Tobias.

Thanks for the parameters. I will attach a copy of the official notification letter sent to Dennis Reineke.

The testing will take place between June 10 and 21 at Chrysler's Chelsea Proving Grounds in Chelsea, MI. We will be testing several makes and models of vehicles of which the Tiguan is one. I've received notification that this Tiguan has a cracked windshield and is awaiting a new one. Apparently, the dealership is having a hard time getting a replacement but we hope that the replacement will take place in time for us to test this vehicle. If not, I may need to ask you for parameters for another vehicle.

Have a nice weekend.

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Friday, June 07, 2013 11:45 AM
To: Sohacki, Lynn
Subject: RE: Parameters Needed for Coastdown Testing

Hi Lynn !

Here are the data for the coast down test.

If you need any more information, please let me know.

Is it possible to get any more details about the testing (which cars, where etc.)?

Have a nice weekend !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Tuesday, June 04, 2013 2:03 PM
To: Glas, Tobias
Subject: Parameters Needed for Coastdown Testing

Hi, Tobias.

EPA will be conducting some coastdown tests on a variety of vehicles over the next two weeks. A notification letter to VW is being prepared and a copy will be sent to you shortly. However, because the testing is scheduled to start next week I am sending a request for parameters in advance of the notification letter. I apologize for the late notice.

Please let me know if you have any questions.

Regards,

Lynn Sohacki

Compliance Division

Environmental Protection Agency

734-214-4851

734-214-4869 fax

To: Rodgers, William (EEO)[William.Rodgers@vw.com]; Snyder, Jim[Snyder.Jim@epa.gov]; Sohacki, Lynn[sohacki.lynn@epa.gov]
Cc: Glas, Tobias[Tobias.Glas@vw.com]
From: Ball, Joel
Sent: Fri 6/21/2013 2:51:26 PM
Subject: RE: VW Tiguan

Thank you for the quick response, however, I am still a little confused the application has the following chart which shows the coefficients you provided correspond to 235/50 R18 tires but the vehicle we tested has 215/ 65 R16 tires. I would expect that a 20mm difference in tire width to have an affect on the road load. Are you sure these are the correct coefficients?

Common Section 12VW Pg 11	Vehicle Test Parameters	Engine Code	R.CH-No.:	Revision Date
Test Group	All MY2013 (D)	All		02-01-2012

Carline / model	Engine Displ./HP	Engine Code	Tires	TM / OD #	Axle	ETW	Road Track Coefficients F0	F1	F2	TCDT	Fuel tank Cap.	Fan Pos.	Shift Sched. I.D.	Test Fuel	DF Source
	[liter/hp]					[lbs]	[lb ft]	[lb ft / mph]	[lb ft / (mph)²]	[sec] / [hp]	40% 100% [l]				
Jetta	2.0 / 200	CBFA	215/55 R16	L6 /2	4.058	3500	29	0.21	0.0168	20.07	22.0 55.0	A	L 6	Tier2	AV3SA
Jetta	2.0 / 200	CBFA	225/40 R18	M 6 /2	3.684	3500	30	0.20	0.0186	18.77	22.0 55.0	A	M 6	Tier2	AV3SA
Jetta	2.0 / 200	CCTA	235/40 R18	L6 /2	4.059 3.136	3625	29	0.21	0.0168	20.07	22.0 55.0	A	L6	Tier 2	8V3UA
Jetta	2.0 / 200	CCTA	225/45 R17	M 6 /2	3.684 2.917	3625	30	0.20	0.0186	18.77	22.0 55.0	A	M6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/55 R17	M6	4.400 3.300	3875	41	0.15	0.0272	16,98	25.0 64.0	A	M6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6	3.816	3875	34	0,38	0.0226	16,4	25.0 64.0	A	L6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6	3.816	3875	40	0,51	0.0218	14,96	25.0 64.0	A	L6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6 4motion	3.816	4000	36	0.35	0.0245	16,22	25.0 64.0	A	L6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6 4motion	3.816	4000	42	0,47	0.0237	14,82	25.0 64.0	A	L6	Tier 2	8V3UA

#) OD = Overdrive, 1 =final gear ratio >1 ; 2 =final gear ratio < 1
*) value = pre stage x axle
$) double clutch transmission

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Friday, June 21, 2013 8:29 AM
To: Snyder, Jim
Cc: Ball, Joel; Glas, Tobias
Subject: RE: VW Tiguan

Hello Jim,

We have confirmed that the coefficients provided to Lynn are correct for the vehicle and tire you have at EPA. We will contact you Monday to discuss further.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, June 20, 2013 5:14 PM
To: Thomas, Richard (EEO); Rodgers, William (EEO); Glas, Tobias
Cc: Ball, Joel
Subject:

Richard, I left you a voice mail about a vehicle we have that has a tire size that's not listed in the Cert Application. Can one of you see what the story is? It's a rental VW Tiquan, 2WD with 215/65 17 Pirelli Scorpion STR tires. See attached pics. They aren't listed in the Common section , is it in the FE database? Tobias (I'm guessing) gave Lynn some road load coefficents but they are probably for a different tire. We'd like to know the correct Road load coefficients.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

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Carline / model	Engine Displ./HP	Engine Code	Tires	TM / OD #	Axle	ETW	Road Track Coefficients F0	F1	F2	TCDT	Fuel tank Cap.	Fan Pos.	Shift Sched. I.D.	Test Fuel	DF Source
	[liter/hp]					[lbs]	[lb ft]	[lb ft / mph]	[lb ft / (mph)^2]	[sec] / [hp]	40% 100% [l]				
Jetta	2.0 / 200	CBFA	215/55 R16	L6 /2	4.059	3500	29	0.21	0.0168	20.07	22.0 55.0	A	L 6	Tier2	AV3SA
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*) value = pre stage x axle
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To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Mazaitis, Vincent[mazaitis.vincent@epa.gov]; Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Mon 6/24/2013 11:10:08 AM
Subject: Audi SQ5 Retest - VID E3UF-SQ5

Hello Jim,

Based on the results of last week's confirmatory tests, we are requesting a retest of the US06 cycle. Please schedule this test along with the already planned FTP retest.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

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#) OD = Overdrive, 1 =final gear ratio >1 ; 2 =final gear ratio < 1
*) value = pre stage x axle
$) double clutch transmission

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#) OD = Overdrive, 1 =final gear ratio >1 ; 2 =final gear ratio < 1
*) value = pre stage x axle
$) double clutch transmission

To: Glas, Tobias[Tobias.Glas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Ball, Joel
Sent: Mon 6/24/2013 5:25:53 PM
Subject: RE: VW Tiguan

Yes, that is one of the metrics used. AC 55 also specifies 10% tolerance on the DPA setting (total road load power at 50 mph). The guidance letter CD 02-01 proposed using work done over the FTP and HWFE cycles. We feel these are more appropriate metrics however no official tolerance has been set at this time.

I don't think you have anything to worry about with this Tiguan coastdown result. We just need to make sure we are comparing to the correct values.

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Monday, June 24, 2013 1:16 PM
To: Ball, Joel
Cc: Snyder, Jim; Sohacki, Lynn
Subject: RE: VW Tiguan

Hi Joel !

Lynn pointed me to read the AC 55B about the tolerances on Road coefficients:

If the Target coastdown time we submitted is under 107% of the TCDT you measured with the vehicle everything is fine. And the Target coast down time is defined as the coast down time between 55mph and 45mph.

Please let me know if I understood that right.

Thank you !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Rodgers, William (EEO)
Sent: Monday, June 24, 2013 8:41 AM
To: Ball, Joel
Cc: Glas, Tobias; Snyder, Jim; Sohacki, Lynn
Subject: RE: VW Tiguan

Mr. Ball,

Please be advised that the Common Section Application information you referenced is from an old (Initial Application) document version that has since been updated in the Verify system. The

latest Common Section Update Application, originally submitted 02-24-2013 and revised 04-05-2013, contains information regarding the 16-inch tire size you mentioned. We appreciate the opportunity to confirm the coefficients prior to your testing because in this case we did discover some typos in this latest document which are now scheduled for correction in the Final Application update due in December 2013. The coefficient information previously provided by Mr. Glas (i.e. 40/0.51/0.0218) is correct for testing the vehicle in question.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Ball, Joel [mailto:ball.joel@epa.gov]
Sent: Friday, June 21, 2013 10:51 AM
To: Rodgers, William (EEO); Snyder, Jim; Sohacki, Lynn
Cc: Glas, Tobias
Subject: RE: VW Tiguan

Thank you for the quick response, however, I am still a little confused the application has the following chart which shows the coefficients you provided correspond to 235/50 R18 tires but

the vehicle we tested has 215/ 65 R16 tires. I would expect that a 20mm difference in tire width to have an affect on the road load. Are you sure these are the correct coefficients?

Common Section 12VW Pg 11	Vehicle Test Parameters	Engine Code	R.CH-No.:	Revision Date
Test Group	All MY2013 (D)	All		02-01-2012

Carline / model	Engine Displ./HP	Engine Code	Tires	TM / OD #	Axle	ETW	Road Track Coefficients F0	F1	F2	TCDT	Fuel tank Cap.	Fan Pos.	Shift Sched. I.D.	Test Fuel	DF Source
	[liter/hp]					[lbs]	[lb ft]	[lb ft / mph]	[lb ft / (mph)²]	[sec] / [hp]	40% 100% [l]				
Jetta	2.0 / 200	CBFA	215/55 R16	L6 /2	4.058	3500	29	0.21	0.0168	20.07	22.0 55.0	A	L 6	Tier2	AV3SA
Jetta	2.0 / 200	CBFA	225/40 R18	M 6 /2	3.684	3500	30	0.20	0.0186	18.77	22.0 55.0	A	M 6	Tier2	AV3SA
Jetta	2.0 / 200	CCTA	235/40 R18	L6 /2	4.059 3.136	3625	29	0.21	0.0168	20.07	22.0 55.0	A	L6	Tier 2	8V3UA
Jetta	2.0 / 200	CCTA	225/45 R17	M 6 /2	3.684 2.917	3625	30	0.20	0.0186	18.77	22.0 55.0	A	M6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/55 R17	M6	4.400 3.300	3875	41	0.15	0.0272	16,98	25.0 64.0	A	M6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6	3.816	3875	34	0,38	0.0226	16,4	25.0 64.0	A	L6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6	3.816	3875	40	0,51	0.0218	14,96	25.0 64.0	A	L6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6 4motion	3.816	4000	36	0.35	0.0245	16,22	25.0 64.0	A	L6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6 4motion	3.816	4000	42	0,47	0.0237	14,82	25.0 64.0	A	L6	Tier 2	8V3UA

#) OD = Overdrive, 1 =final gear ratio >1 ; 2 =final gear ratio < 1
*) value = pre stage x axle
$) double clutch transmission

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]

Sent: Friday, June 21, 2013 8:29 AM
To: Snyder, Jim
Cc: Ball, Joel; Glas, Tobias
Subject: RE: VW Tiguan

Hello Jim,

We have confirmed that the coefficients provided to Lynn are correct for the vehicle and tire you have at EPA. We will contact you Monday to discuss further.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, June 20, 2013 5:14 PM
To: Thomas, Richard (EEO); Rodgers, William (EEO); Glas, Tobias
Cc: Ball, Joel
Subject:

Richard, I left you a voice mail about a vehicle we have that has a tire size that's not listed in the Cert Application. Can one of you see what the story is? It's a rental VW Tiquan, 2WD with 215/65 17 Pirelli Scorpion STR tires. See attached pics. They aren't listed in the Common section , is it in the FE database? Tobias (I'm guessing) gave Lynn some road load coefficents but they are probably for a different tire. We'd like to know the correct Road load coefficients.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

Common Section 12VW Pg 11	Vehicle Test Parameters	Engine Code	R.CH-No.:	Revision Date
Test Group	All MY2013 (D)	All		02-01-2012

Carline / model	Engine Displ./HP	Engine Code	Tires	TM / OD #	Axle	ETW	Road Track Coefficients F0	F1	F2	TCDT	Fuel tank Cap.	Fan Pos.	Shift Sched. I.D.	Test Fuel	DF Source
	[liter/hp]					[lbs]	[lb ft]	[lb ft / mph]	[lb ft / (mph)^2]	[sec] / [hp]	40% 100% [l]				
Jetta	2.0 / 200	CBFA	215/55 R16	L6 /2	4.059	3500	29	0.21	0.0168	20.07	22.0 55.0	A	L 6	Tier2	AV3SA
Jetta	2.0 / 200	CBFA	225/40 R18	M 6 /2	3.684	3500	30	0.20	0.0186	18.77	22.0 55.0	A	M 6	Tier2	AV3SA
Jetta	2.0 / 200	CCTA	235/40 R18	L6 /2	4.059 3.136	3625	29	0.21	0.0168	20.07	22.0 55.0	A	L6	Tier 2	8V3UA
Jetta	2.0 / 200	CCTA	225/45 R17	M 6 /2	3.684 2.917	3625	30	0.20	0.0186	18.77	22.0 55.0	A	M6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/55 R17	M6	4.400 3.300	3875	41	0.15	0.0272	16,98	25.0 64.0	A	M6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6	3.816	3875	34	0,38	0.0226	16,4	25.0 64.0	A	L6	Tier 2	8V3UA
Tiguan	2.0 / 200	CCTA	235/50 R18	L6	3.816	3875	40	0,51	0.0218	14,96	25.0 64.0	A	L6	Tier 2	8V3UA
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Tiguan	2.0 / 200	CCTA	235/50 R18	L6 4motion	3.816	4000	42	0,47	0.0237	14,82	25.0 64.0	A	L6	Tier 2	8V3UA

#) OD = Overdrive, 1 =final gear ratio >1 ; 2 =final gear ratio < 1
*) value = pre stage x axle
$) double clutch transmission

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Mon 6/24/2013 7:16:48 PM
Subject: FW: Audi SQ5 Retest - VID E3UF-SQ5

Hi Jim,

Do you happen to know yet when these tests are to be run this week?

Bill

From: Rodgers, William (EEO)
Sent: Monday, June 24, 2013 7:10 AM
To: Snyder, Jim
Cc: Mazaitis, Vincent (mazaitis.vincent@epa.gov); Giles, Michael; Allen, Gregory
Subject: Audi SQ5 Retest - VID E3UF-SQ5

Hello Jim,

Based on the results of last week's confirmatory tests, we are requesting a retest of the US06 cycle. Please schedule this test along with the already planned FTP retest.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Snyder, Jim
Sent: Mon 6/24/2013 7:50:18 PM
Subject: RE: Audi SQ5 Retest - VID E3UF-SQ5

No yet, I 'll try and find out tomorrow morning.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, June 24, 2013 3:17 PM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Glas, Tobias; Allen, Gregory
Subject: FW: Audi SQ5 Retest - VID E3UF-SQ5

Hi Jim,

Do you happen to know yet when these tests are to be run this week?

Bill

From: Rodgers, William (EEO)
Sent: Monday, June 24, 2013 7:10 AM
To: Snyder, Jim
Cc: Mazaitis, Vincent (mazaitis.vincent@epa.gov); Giles, Michael; Allen, Gregory
Subject: Audi SQ5 Retest - VID E3UF-SQ5

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Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 6/26/2013 10:34:30 AM
Subject: VW Group Certificate - EVWXV02.0U36

Hi Jim,

Given the upcoming week 27 start of production and holiday next week, If there is any way to get the Certificate issued this week for the test group EVWXV02.0U36 we would greatly appreciate it.

Regards

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: richard.thomas@vw.com[richard.thomas@vw.com]
From: Good, David
Sent: Wed 6/26/2013 5:22:28 PM
Subject: FW: 2014 FE Guide - data in Verify as of 6/25/2013 9:30AM
VW_Group_2014 FEGuide-all rel dates-no-sales-6-25-2013.xlsx

Richard,

I sent the data at 9:30 yesterday.

Let me know if you receive this one.

Dave

From: Good, David
Sent: Tuesday, June 25, 2013 10:58 AM
To: 'richard.thomas@vw.com'
Subject: 2014 FE Guide - data in Verify as of 6/25/2013 9:30AM

Richard,

Here you go.

Dave

To: Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Glas, Tobias
Sent: Wed 6/26/2013 5:42:28 PM
Subject: FW: Audi SQ5 Confirmatory Test Date set

Hi Lynn !

I'll be back at the EPA this Friday. In case you have data or the little presentation for the Tiguan coast down testing ready please let me know.

If not it is no problem to come down there any other time.

Thanks !

Tobias Glas
In-Use Emission Compliance Specialist
Engineering & Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 494-1537
Fax: (248) 754-4207
E-Mail: Tobias.Glas@vw.com

-----Original Message-----
From: Rodgers, William (EEO)
Sent: Wednesday, June 26, 2013 1:38 PM
To: Mazaitis, Vincent (mazaitis.vincent@epa.gov)
Cc: Snyder, Jim; Giles, Michael (EEO); Allen, Gregory; Glas, Tobias
Subject: FW: Audi SQ5 Confirmatory Test Date set

Hello Vince,
Our resident Engineer Tobias Glas will attend the Audi testing scheduled for Friday. Please let us know what time the test is expected to start.

Regards,

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

-----Original Message-----
From: no-reply@epa.gov [mailto:no-reply@epa.gov]
Sent: Wednesday, June 26, 2013 11:48 AM

To: Thomas, Richard (EEO); Giles, Michael (EEO); Rodgers, William (EEO); VWoA EEO Government
Subject: Confirmatory Test Date set

The following is a courtesy copy of status message for a Verify submission. Any references made to links refer to links which will appear in the CDX Inbox message.

Confirmatory Test Date has been set for the following vehicle :

Manufacturer: ADX
Vehicle ID: Ex. 4 - CBI
Vehicle Configuration: 0

The test date is 06/28/2013.

The Verify submission this message relates to has the following values:

Vehicle ID: Ex. 4 - CBI

Vehicle Configuration #: 0

Test Group Name: Ex. 4 - CBI

The following transaction identifier has been assigned to this request:

Ex. 4 - CBI

Please do not reply to this message.

To: Glas, Tobias[Tobias.Glas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Sohacki, Lynn
Sent: Wed 6/26/2013 7:12:43 PM
Subject: RE: Audi SQ5 Confirmatory Test Date set

Hi, Tobias.

Jim Snyder said that he will contact you about a meeting on Friday. Unfortunately, I will be out of the office that day.

Regards,

Lynn

-----Original Message-----
From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Wednesday, June 26, 2013 1:42 PM
To: Sohacki, Lynn
Subject: FW: Audi SQ5 Confirmatory Test Date set

Hi Lynn !

I'll be back at the EPA this Friday. In case you have data or the little presentation for the Tiguan coast down testing ready please let me know.

If not it is no problem to come down there any other time.

Thanks !

Tobias Glas
In-Use Emission Compliance Specialist
Engineering & Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 494-1537
Fax: (248) 754-4207
E-Mail: Tobias.Glas@vw.com

-----Original Message-----
From: Rodgers, William (EEO)
Sent: Wednesday, June 26, 2013 1:38 PM
To: Mazaitis, Vincent (mazaitis.vincent@epa.gov)
Cc: Snyder, Jim; Giles, Michael (EEO); Allen, Gregory; Glas, Tobias
Subject: FW: Audi SQ5 Confirmatory Test Date set

Hello Vince,
Our resident Engineer Tobias Glas will attend the Audi testing scheduled for Friday. Please let us know

what time the test is expected to start.

Regards,

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

-----Original Message-----
From: no-reply@epa.gov [mailto:no-reply@epa.gov]
Sent: Wednesday, June 26, 2013 11:48 AM
To: Thomas, Richard (EEO); Giles, Michael (EEO); Rodgers, William (EEO); VWoA EEO Government
Subject: Confirmatory Test Date set

The following is a courtesy copy of status message for a Verify submission. Any references made to links refer to links which will appear in the CDX Inbox message.

Confirmatory Test Date has been set for the following vehicle :

Manufacturer: ADX
Vehicle ID: E3UF-SQ5
Vehicle Configuration: 0

The test date is 06/28/2013.

The Verify submission this message relates to has the following values:

Vehicle ID: E3UF-SQ5

Vehicle Configuration #: 0

Test Group Name: EADXJ03.03UF

The following transaction identifier has been assigned to this request:

_e159509e-01a7-4499-8a2c-fee7e6f38be9

Please do not reply to this message.

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Wed 6/26/2013 9:13:09 PM
Subject: 2013 FE Guide - There are no 2013 labels in Verify for the Audi R8 models but there are 2014 R8s in Verify

Richard,

I'm working on 2013 gas guzzlers.

I couldn't find any 2013 R8s in the FE Label module Verify. Also I didn't see any 2013 certificates covering R8 models. There are 2012 & 2014 R8s in Verify.

Did Audi build any 2013 model year R8s or R8 Spyder models for the U.S.?

Thanks

To: Good, David[good.david@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Thur 6/27/2013 10:56:12 AM
Subject: RE: 2013 FE Guide - There are no 2013 labels in Verify for the Audi R8 models but there are 2014 R8s in Verify

Hi Dave;

The SOP was delayed for the 2013 model year Audi R8 models due to the availability of a new transmission . It came so late they decided to build as 2014, so there is a 2012 and 2014 but no 2013, you are correct.

Thanks,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, June 26, 2013 5:13 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: 2013 FE Guide - There are no 2013 labels in Verify for the Audi R8 models but there are 2014 R8s in Verify

Richard,

I'm working on 2013 gas guzzlers.

I couldn't find any 2013 R8s in the FE Label module Verify. Also I didn't see any 2013 certificates covering R8 models. There are 2012 & 2014 R8s in Verify.

Did Audi build any 2013 model year R8s or R8 Spyder models for the U.S.?

Thanks

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Good, David
Sent: Thur 6/27/2013 1:04:28 PM
Subject: RE: 2013 FE Guide - There are no 2013 labels in Verify for the Audi R8 models but there are 2014 R8s in Verify - [Thanks] NNTO

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Thursday, June 27, 2013 6:56 AM
To: Good, David
Cc: Snyder, Jim
Subject: RE: 2013 FE Guide - There are no 2013 labels in Verify for the Audi R8 models but there are 2014 R8s in Verify

Hi Dave;

Ex. 4 - CBI

Thanks,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, June 26, 2013 5:13 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim
Subject: 2013 FE Guide - There are no 2013 labels in Verify for the Audi R8 models but there are 2014 R8s in Verify

Richard,

I'm working on 2013 gas guzzlers.

I couldn't find any 2013 R8s in the FE Label module Verify. Also I didn't see any 2013 certificates covering R8 models. There are 2012 & 2014 R8s in Verify.

Did Audi build any 2013 model year R8s or R8 Spyder models for the U.S.?

Thanks

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Good, David
Sent: Thur 6/27/2013 7:13:10 PM
Subject: RE: 2014 Volkswagen and Audi Fuel Eeconomy

Richard,

Sorry---I've been in a couple meetings. I'll send you something in 15 minutes.

Dave

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Thursday, June 27, 2013 1:43 PM
To: Good, David
Subject: 2014 Volkswagen and Audi Fuel Eeconomy

Hi Dave;

I was just wondering if you sent the fuel economy audit report we spoke about this morning. If you did, then I didn't get it. Wondering if our security system is dumping it somewhere due to the attachment; but normally I would still get the written text minus the attached file.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207

Richard.Thomas@VW.com

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Good, David
Sent: Thur 6/27/2013 7:25:52 PM
Subject: RE: 2014 Volkswagen and Audi Fuel Eeconomy
VW_Group_2014 FEGuide-all rel dates-no-sales-6-27-2013.xlsx

Richard,

Here you go.

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Thursday, June 27, 2013 1:43 PM
To: Good, David
Subject: 2014 Volkswagen and Audi Fuel Eeconomy

Hi Dave;

I was just wondering if you sent the fuel economy audit report we spoke about this morning. If you did, then I didn't get it. Wondering if our security system is dumping it somewhere due to the attachment; but normally I would still get the written text minus the attached file.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Glas, Tobias[Tobias.Glas@vw.com]; Ball, Joel[ball.joel@epa.gov]
Cc: Mazaitis, Vincent[mazaitis.vincent@epa.gov]
From: Snyder, Jim
Sent: Thur 6/27/2013 7:39:33 PM
Subject: RE: Audi SQ5 Confirmatory Test Date set

9 am sounds good. I didn't bother to reserve a conference room but that shouldn't be a problem on a Friday. Will Stewart and Garett be coming with you at 7 or at 9?

-----Original Message-----
From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Thursday, June 27, 2013 3:00 PM
To: Snyder, Jim
Cc: Mazaitis, Vincent
Subject: RE: Audi SQ5 Confirmatory Test Date set

Hi Jim !

I'm gonna be at EPA for our retest tomorrow at 7am. What time do you want to do the presentation about the coast down values? Maybe at around 9 am?

Stuart Johnson and my colleague Garett Horton would like to join us for the presentation I hope that is ok.

Best regards

Tobias Glas
In-Use Emission Compliance Specialist
Engineering & Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 494-1537
Fax: (248) 754-4207
E-Mail: Tobias.Glas@vw.com
-----Original Message-----
From: Mazaitis, Vincent [mailto:mazaitis.vincent@epa.gov]
Sent: Wednesday, June 26, 2013 2:03 PM
To: Rodgers, William (EEO)
Cc: Snyder, Jim; Giles, Michael (EEO); Allen, Gregory; Glas, Tobias
Subject: RE: Audi SQ5 Confirmatory Test Date set

Hello Bill,

Thanks for the "heads up." I'll know more tomorrow, and will contact you.

Thanks,

Vince Mazaitis

-----Original Message-----

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, June 26, 2013 1:38 PM
To: Mazaitis, Vincent
Cc: Snyder, Jim; Giles, Michael (EEO); Allen, Gregory; Glas, Tobias
Subject: FW: Audi SQ5 Confirmatory Test Date set

Hello Vince,
Our resident Engineer Tobias Glas will attend the Audi testing scheduled for Friday. Please let us know what time the test is expected to start.

Regards,

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

-----Original Message-----
From: no-reply@epa.gov [mailto:no-reply@epa.gov]
Sent: Wednesday, June 26, 2013 11:48 AM
To: Thomas, Richard (EEO); Giles, Michael (EEO); Rodgers, William (EEO); VWoA EEO Government
Subject: Confirmatory Test Date set

The following is a courtesy copy of status message for a Verify submission. Any references made to links refer to links which will appear in the CDX Inbox message.

Confirmatory Test Date has been set for the following vehicle :

Ex. 4 - CBI

The following transaction identifier has been assigned to this request:

Ex. 4 - CBI

Please do not reply to this message.

To: Glas, Tobias[Tobias.Glas@vw.com]; Ball, Joel[ball.joel@epa.gov]
Cc: Mazaitis, Vincent[mazaitis.vincent@epa.gov]
From: Snyder, Jim
Sent: Thur 6/27/2013 8:36:23 PM
Subject: RE: Audi SQ5 Confirmatory Test Date set

Okay.

-----Original Message-----
From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Thursday, June 27, 2013 4:25 PM
To: Snyder, Jim; Ball, Joel
Cc: Mazaitis, Vincent
Subject: RE: Audi SQ5 Confirmatory Test Date set

Actually Garett and I will be there at 7am and Staurt will join at 9am.

See you tomorrow !

Tobias

-----Original Message-----
From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, June 27, 2013 3:40 PM
To: Glas, Tobias; Ball, Joel
Cc: Mazaitis, Vincent
Subject: RE: Audi SQ5 Confirmatory Test Date set

9 am sounds good. I didn't bother to reserve a conference room but that shouldn't be a problem on a Friday. Will Stewart and Garett be coming with you at 7 or at 9?

-----Original Message-----
From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Thursday, June 27, 2013 3:00 PM
To: Snyder, Jim
Cc: Mazaitis, Vincent
Subject: RE: Audi SQ5 Confirmatory Test Date set

Hi Jim !

I'm gonna be at EPA for our retest tomorrow at 7am. What time do you want to do the presentation about the coast down values? Maybe at around 9 am?

Stuart Johnson and my colleague Garett Horton would like to join us for the presentation I hope that is ok.

Best regards

Tobias Glas
In-Use Emission Compliance Specialist
Engineering & Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211
Cell: (248) 494-1537
Fax: (248) 754-4207
E-Mail: Tobias.Glas@vw.com
-----Original Message-----
From: Mazaitis, Vincent [mailto:mazaitis.vincent@epa.gov]
Sent: Wednesday, June 26, 2013 2:03 PM
To: Rodgers, William (EEO)
Cc: Snyder, Jim; Giles, Michael (EEO); Allen, Gregory; Glas, Tobias
Subject: RE: Audi SQ5 Confirmatory Test Date set

Hello Bill,

Thanks for the "heads up." I'll know more tomorrow, and will contact you.

Thanks,

Vince Mazaitis

-----Original Message-----
From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, June 26, 2013 1:38 PM
To: Mazaitis, Vincent
Cc: Snyder, Jim; Giles, Michael (EEO); Allen, Gregory; Glas, Tobias
Subject: FW: Audi SQ5 Confirmatory Test Date set

Hello Vince,
Our resident Engineer Tobias Glas will attend the Audi testing scheduled for Friday. Please let us know what time the test is expected to start.

Regards,

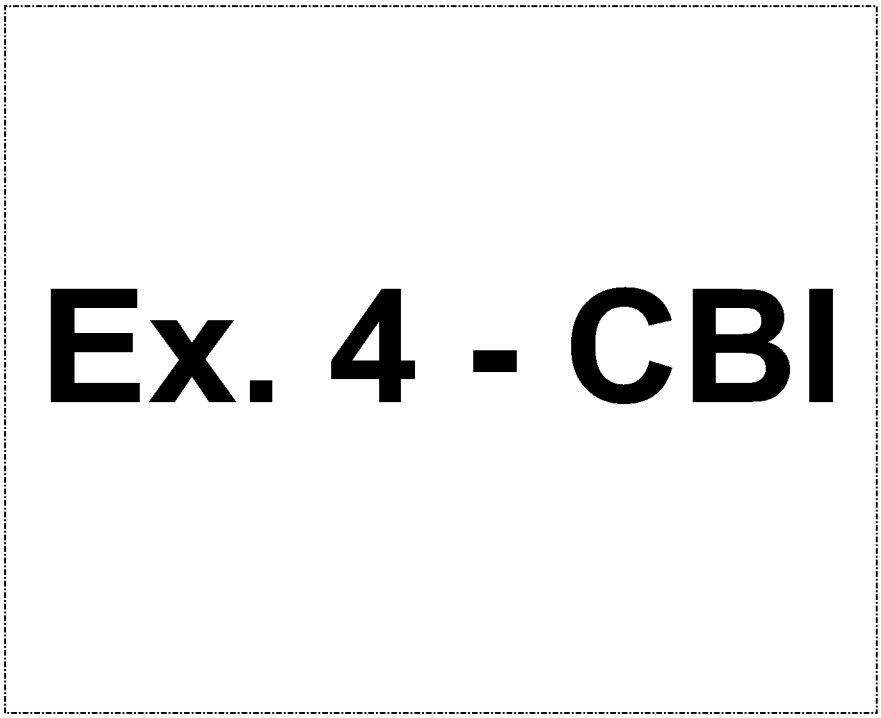
Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

-----Original Message-----
From: no-reply@epa.gov [mailto:no-reply@epa.gov]
Sent: Wednesday, June 26, 2013 11:48 AM
To: Thomas, Richard (EEO); Giles, Michael (EEO); Rodgers, William (EEO); VWoA EEO Government
Subject: Confirmatory Test Date set

The following is a courtesy copy of status message for a Verify submission. Any references made to links refer to links which will appear in the CDX Inbox message.

Confirmatory Test Date has been set for the following vehicle :



Please do not reply to this message.

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Glas, Tobias
Sent: Fri 6/28/2013 1:02:58 PM
Subject: Re: Audi SQ5 Confirmatory Test Date set

Hi Jim!

We are in the Manufacturer room, please pick us up whenever you are ready.

Thanks

Tobias

----- Original Message -----
From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, June 27, 2013 04:36 PM
To: Glas, Tobias; Ball, Joel <ball.joel@epa.gov>
Cc: Mazaitis, Vincent <mazaitis.vincent@epa.gov>
Subject: RE: Audi SQ5 Confirmatory Test Date set

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Sent: Thursday, June 27, 2013 4:25 PM
To: Snyder, Jim; Ball, Joel
Cc: Mazaitis, Vincent
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Tobias

-----Original Message-----
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Subject: RE: Audi SQ5 Confirmatory Test Date set

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Cc: Mazaitis, Vincent
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Best regards

Tobias Glas
In-Use Emission Compliance Specialist
Engineering & Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
United States of America

Phone: (248) 754-4211
Cell: (248) 494-1537
Fax: (248) 754-4207
E-Mail: Tobias.Glas@vw.com
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-----Original Message-----
From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, June 26, 2013 1:38 PM
To: Mazaitis, Vincent
Cc: Snyder, Jim; Giles, Michael (EEO); Allen, Gregory; Glas, Tobias
Subject: FW: Audi SQ5 Confirmatory Test Date set

Hello Vince,
Our resident Engineer Tobias Glas will attend the Audi testing scheduled for Friday. Please let us know what time the test is expected to start.

Regards,

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI

(248) 754-4219
william.rodgers@vw.com

-----Original Message-----
From: no-reply@epa.gov [mailto:no-reply@epa.gov]
Sent: Wednesday, June 26, 2013 11:48 AM
To: Thomas, Richard (EEO); Giles, Michael (EEO); Rodgers, William (EEO); VWoA EEO Government
Subject: Confirmatory Test Date set

The following is a courtesy copy of status message for a Verify submission. Any references made to links refer to links which will appear in the CDX Inbox message.

Confirmatory Test Date has been set for the following vehicle :

Manufacturer: ADX
Vehicle ID: E3UF-SQ5
Vehicle Configuration: 0

The test date is 06/28/2013.

The Verify submission this message relates to has the following values:

Vehicle ID: E3UF-SQ5

Vehicle Configuration #: 0

Test Group Name: EADXJ03.03UF

The following transaction identifier has been assigned to this request:

_e159509e-01a7-4499-8a2c-fee7e6f38be9

Please do not reply to this message.

To: Glas, Tobias[Tobias.Glas@vw.com]
From: Snyder, Jim
Sent: Fri 6/28/2013 2:14:37 PM
Subject: EPA Coastdown results of VW Vehicles
Coast results to VW mtg 06 28 13.pptx

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

Road Load/Coast Down Testing Production Audit of VW vehicles

EPA

June 28, 2013

EPA Audit Testing

- For the 2013 CY, EPA plans to test approximately 20 production vehicles from various manufactures
- EPA tested a production 2012 MY VW Passat in Sep. 2012
- and a 2013 VW Tiguan in June 2013

VW FOIA, EPA 06/20/2017 2017-FFP_006620

EPA Audit Testing

- EPA test procedures
  - EPA followed the test procedures described J2263
  - EPA generally targets lower wind conditions than allowed in the SAE procedures. (<7 mph average and <10 mph peak)
  - EPA primarily tests with on-board anemometer. Except, in low wind conditions (i.e. < 5 mpg average), EPA may test with stationary anemometer.
  - The vehicles were ballasted to ETW with driver and equipment

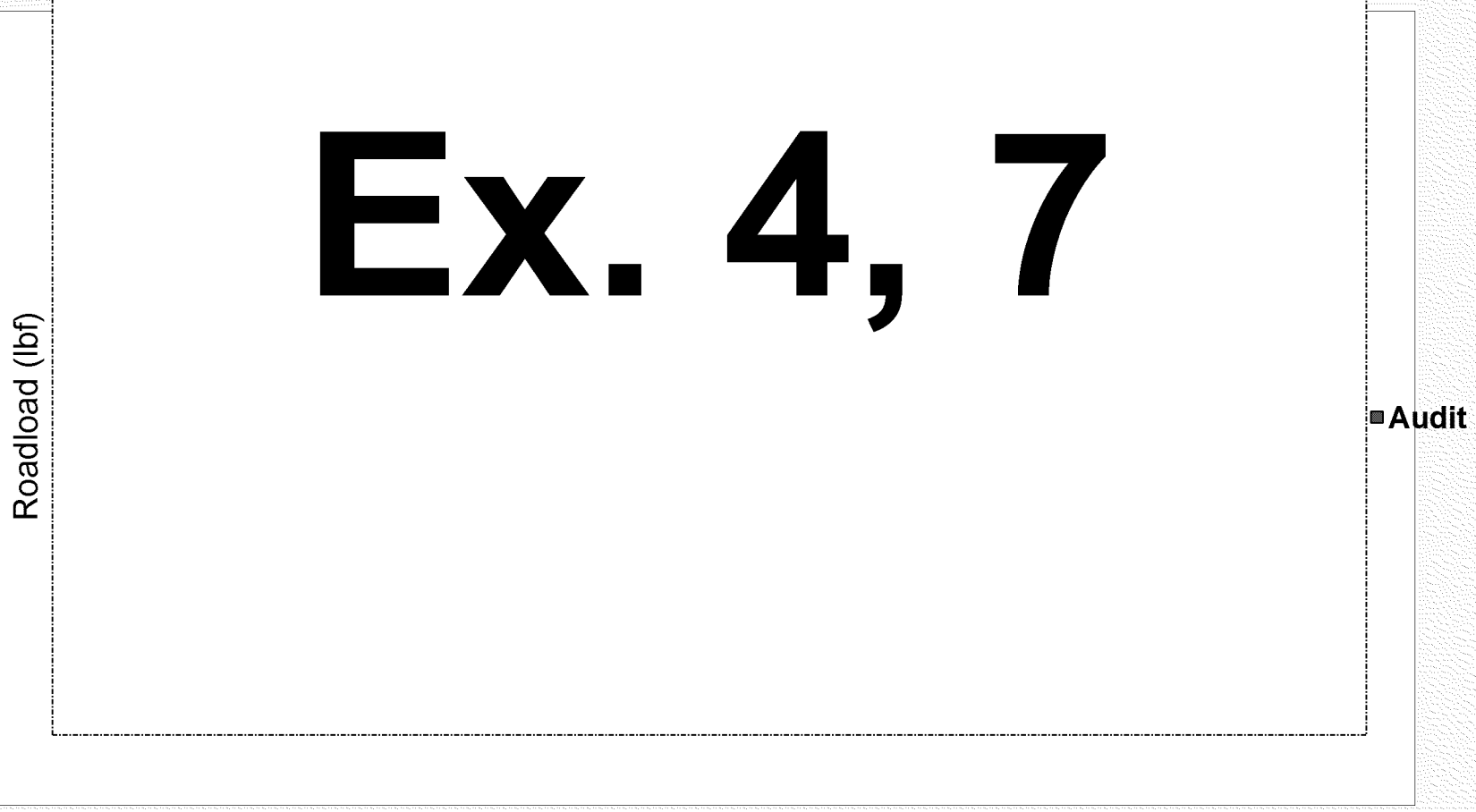
EPA Audit Testing

- EPA test procedures (continued)
  - The vehicles are aligned prior to testing
  - The ride height and wheel drag may be measured prior to testing but will not be adjusted.
- EPA Analysis method
  - Analysis is performed using the SAE analysis software tool or by equations of force from J1263 (using the temperature and baro correction given in J1263)
- EPA compares the Audit results to the manufacture reported road loads based on work done over the emission cycles as proposed in CCD-02-01

Roadload (lbf)

Ex. 4, 7

Ex. 4, 7



To: Petersen, Pete[petersen.pete@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Mon 7/1/2013 7:38:48 PM
Subject: Submitter Request - Mfr. Code VGA
VGA Submitter Request - Rodgers.pdf
INITIAL VGA User-Info.xlsx

Hello Pete,

I am sending you the submitter authorization request forms for myself under the newly consolidated CDX/Verify manufacturer code "VGA" for Volkswagen Group of America, Inc. I have also put the originals in a FedEx package to your attention. Please let me know if there are any questions or concerns about establishing the indicated system authorizations. Once my authorizations are established and tested I will be adding other employee names to the list of submitters.

Thanks,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Petersen, Pete [mailto:petersen.pete@epa.gov]
Sent: Monday, May 20, 2013 10:19 AM
To: Rodgers, William (EEO)
Subject: Mfr. Code VGA

Your company information has been successfully entered in the VERIFY system. The Mfr. Code VGA has been assigned.

This Code does NOT imply EPA emissions approval and may not be used to import vehicles or engines into the U.S.A., or to release impounded vehicles.

Also, please be aware that the process to obtain a CDX Users Account, in order to submit Certification data, has changed dramatically. You will find instructions at www.epa.gov/otaq/verify/setup.htm . I will attach a handy check-list that will help you in submitting all required documents as well as a copy of the Guidance Letter sent to manufacturers.

VOLKSWAGEN

GROUP OF AMERICA

Verify Team
OAR/OTAQ/CISD
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105

Leonard W. Kata Name
Manager Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

July 1, 2013 Date

Subject: CROMERR Documents

Dear Verify Team,

The enclosed documents are the completed CROMERR Electronic Signature Agreement form and Contact Information for Volkswagen Group of America, Inc, under the newly established CDX Manufacture Code "VGA". This consolidated manufacture code includes the brands of Volkswagen, Audi, Bentley, Bugatti and Lamborghini.

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE 41 248 754 5000

These forms authorize Bill Rodgers as an approved VERIFY submitter for Volkswagen Group of America, Inc.

If you have any questions with regard to this information please contact our office in Auburn Hills at (248) 754-4219 or (248) 754-4229.

Sincerely,

Leonard Kata
Volkswagen Group of America, Inc.

Enclosures

VW FOIA, EPA

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): VGA

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

06/20/2017

2017-FFP_006628

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

3. I agree to maintain an electronic mail account; if any e-mail sent to me by U.S. EPA is returned as undeliverable, I will explain this occurrence when requested by U.S. EPA. I understand that I will be informed through this e-mail address whenever my user identification or password has been modified.

4. I understand that CDX reports the last date my user identification and password were used immediately after successfully logging into CDX.

5. I understand that whenever I electronically sign and submit an electronic document to the CDX, I will receive an e-mail message at my registered e-mail address as an "out-of-band" receipt. This e-mail message will inform me that a submission has been made to CDX from my user account and will contain instructions to view information regarding the submission in my CDX Inbox.

6. I understand that I will receive an e-mail message in my CDX inbox with a link to my encrypted, electronically signed copy of my submission as an "in-band" receipt.

7. I agree to review the acknowledgements and copies of documents that I electronically sign and submit to the US EPA's CDX.

8. I agree that if I receive an in-band or out-of-band receipt for a submission that I do not believe that I submitted, I will notify the CDX Help Desk as soon as possible, but no later than 24 hours, after receipt.

9. I agree to contact the CDX Help Desk if I do not receive a receipt either by in-band or out-of-band message within 5 business days for any electronically signed submission using my credentials.

10. I agree to report, within 24 hours of discovery, any evidence of a discrepancy between an electronic document I have signed and submitted and what the CDX has received from me by contacting the CDX Help Desk.

11. I agree to notify U.S. EPA if I cease to represent the regulated entity specified below, by sending an e-mail message to verify@epa.gov with "Verify Account Termination" in the subject line.

12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006629

Signature: 

Printed Name: William Rodgers

Title: Certification Engineer

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: william.rodgers@vw.com

Telephone Number: 248-754-4219 Date: 6-27-2017

CDX User ID: Ex. 6

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

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Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): **VGA**

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
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City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Cert

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0217-010 Vehicle ID: E3UF-SQ5

Test Information

Test Date:	6/28/2013	MFR Name	AUDI
Key Start / Hot Soak:	07:23:00 / 09:33	MFR Codes:	640 ADX
Fuel Container ID:	F00023	Config #:	00
Fuel Type:	61 Tier 2 Cert Test Fuel	Transmission:	S
Test Procedure:	21 Federal fuel 2-day exhaust (w/can loa	Shift Schedule:	A09980005
Calculation Method:	Gasoline	Beginning Odometer:	004649.0 MI
Pretest Remarks:		Drive Schedule:	ftp3bag
		Soak Period:	14.4 hours

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	9.419	64.461	0.851	1.221	2.923	
Ambient	2.818	0.000	0.005	0.046	1.979	
Net Concentration	6.860	64.461	0.847	1.180	1.125	5.540
Remarks:						
Phase 2						
Sample	2.884	0.565	0.224	0.789	1.870	
Ambient	2.846	0.000	0.000	0.046	1.968	
Net Concentration	0.206	0.565	0.224	0.746	0.018	0.185
Remarks:						
Phase 3						
Sample	3.163	4.257	0.350	1.029	1.971	
Ambient	2.887	0.000	0.000	0.045	1.969	
Net Concentration	0.498	4.257	0.350	0.987	0.154	0.318
Remarks:						
Phase 4						
Sample						
Ambient						
Net Concentration						
Remarks:						

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.085	1.615	0.036	464.6	0.016	0.069 / 0.071	19.145
	0.004	0.023	0.015	467.5	0.000	0.004 / 0.004	19.137
	0.006	0.107	0.015	389.9	0.002	0.004 / 0.004	22.935
						(NMOG=1.04xNMHC)	
Weighted	0.02145	0.37584	0.01918	445.613	0.00417	0.0172 / 0.0179	

Fuel Economy	Gasoline MPG
Phase 1	19.10
Phase 2	19.09
Phase 3	22.88
Weighted	19.99

Dyno Settings

Dyno #: D329 - FWD
Inertia: 4750
EPA Set Co A: 16.01
EPA Set Co B: 0.3322
EPA Set Co C: 0.02176

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0217-010 Vehicle ID: E3UF-SQ5

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
							1.173
Phase 1	0.305	5.796	0.128	1667.2	0.058	0.247	
	0.016	0.087	0.058	1802.3	0.002	0.014	
	0.022	0.383	0.053	1395.7	0.008	0.014	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.68	28.68	28.69	
Avg Cell Temp (degF)	74.23	74.21	74.13	
Dew Point (degF)	63.53	60.65	53.51	
Specific Humidity (grains/lbm)	91.87	82.80	63.72	
NOx Corr Factor	1.0861	1.0381	0.9497	
CO2 Dilution Factor	10.904	16.976	13.011	
CFV Vmix (scf @68F)	2727.14	4662.24	2728.16	
CVS Flow Rate Avg (scfm)	322.10	321.53	322.67	
Fan Placement: One Fan - Down - Front				
Phase Time (secs)	508.00	870.00	507.30	
Distance (miles)	3.589	3.855	3.579	
Bag Analysis Time (secs)	52.8	61.8	64.3	

MFR Test Results for Procedure 21 Federal fuel 2-day exhaust (w/can load)

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10025853	0.0218	0.47	0.022	425	0	0.0174

Odometer	MPG	PM
4320 M	21	0.004

MPG is 5.07 % higher than EPA MPG

MFR Lab: Audi Ingolstadt

Dyno: 8

Fuel: 61 Tier 2 Cert Gasoline

To: Wright, DavidA[Wright.DavidA@epa.gov]
From: Giles, Michael (EEO)
Sent: Tue 7/2/2013 6:41:00 PM
Subject: FW: SQ5 test result
EPA_US06 EADX91001844 Retest-Report - E3UF-SQ5_7-01-13.pdf

Hello David,

Could you please also send us the PDF of the lab report for the attached US06 test?

Thanks,

Mike

Test Information Details
Information Process Code : N
Test Number Identifier : EADX91001844
LOD Test Number Text : 20130217011
EPA Manufacturer Code : ADX
Vehicle Identification Text : E3UF-SQ5
Vehicle Configuration Number : 0
Test Data Details
Test Date : 20130628
Test Procedure Identifier : 90
Test Fuel Type Identifier : 61
Odometer Start Value : 4660.0
Correction Units Code : M
Analytically Derived Indicator : N
Four Wheel Drive Dynamometer Indicator : N
EPA Dynamometer Number Text : D329
Fuel Batch Properties Details
Fuel Batch Manufacturer Code : LOD
Fuel Batch Identifier : F00023
Fuel Calibration Number : 289

Retest Indicator : N
Manufacturer Comment Text : TC N2O , CREE, and OPT-CREE set to default valuesTC (NMOG=1.04xNMHC)
Fuel Economy Value Unit Identifier : MPG
Emission Test Details
Test Result Identifier : METHANE
Unrounded Result Value : 0.0086822

Emission Test Details
Test Result Identifier : CREE
Unrounded Result Value : 0.0000000

Emission Test Details
Test Result Identifier : HC-TOTAL
Unrounded Result Value : 0.0409302

Emission Test Details
Test Result Identifier : CO2 BAG 1
Unrounded Result Value : 689.7613473

Emission Test Details
Test Result Identifier : CO
Unrounded Result Value : 2.8859612

Emission Test Details

Test Result Identifier : CO2
Unrounded Result Value : 441.2838284

Emission Test Details
Test Result Identifier : HC-NM
Unrounded Result Value : 0.0321262

Emission Test Details
Test Result Identifier : FE BAG 2
Unrounded Result Value : 23.8205039

Emission Test Details
Test Result Identifier : NMOG+NOX
Unrounded Result Value : 0

Emission Test Details
Test Result Identifier : NOX
Unrounded Result Value : 0.0203310

Emission Test Details
Test Result Identifier : MFR FE
Unrounded Result Value : 20.0310898

Emission Test Details
Test Result Identifier : HC-NM+NOX
Unrounded Result Value : 0.0524571

Emission Test Details
Test Result Identifier : N2O
Unrounded Result Value : 0.0100000

Emission Test Details
Test Result Identifier : NMOG
Unrounded Result Value : 0.0334112

Emission Test Details
Test Result Identifier : OPT-CREE
Unrounded Result Value : 0.0000000

Emission Test Details
Test Result Identifier : CO2 BAG 2
Unrounded Result Value : 370.7318280

Emission Test Details
Test Result Identifier : FE BAG 1
Unrounded Result Value : 12.8145753

Cert

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0217-011 Vehicle ID: E3UF-SQ5

Test Information

Test Date:	6/28/2013	MFR Name	AUDI
Key Start:	08:48:27	MFR Codes:	640 ADX
Fuel Container ID:	F00023	Config #:	00
Fuel Type:	61 Tier 2 Cert Test Fuel	Transmission:	S
Test Procedure:	89 us062bag (us06warmup_2bagus06)	Shift Schedule:	A09980041
Calculation Method:	Gasoline	Beginning Odometer:	004660.0 MI
Pretest Remarks:		Drive Schedule:	us06warmup_2bagus06

Bag Data	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Phase 1						
Sample	6.942	104.877	0.665	1.136	2.452	
Ambient	2.916	0.000	0.005	0.045	1.966	
Net Concentration	4.276	104.877	0.660	1.094	0.655	3.507
Remarks:						
Phase 2						
Sample	5.919	143.377	0.561	1.388	2.439	
Ambient	2.950	0.000	0.005	0.046	1.959	
Net Concentration	3.278	143.377	0.556	1.347	0.685	2.474
Remarks:						
Phase 3						
Sample						
Ambient						
Net Concentration						
Remarks:						
Phase 4						
Sample						
Ambient						
Net Concentration						
Remarks:						

Results	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC / NMOG (gpm)	Vol MPG (mpg)
Phase 1	0.085	4.207	0.040	689.8	0.015	0.070 / 0.072	12.844
	0.028	2.511	0.015	370.7	0.007	0.021 / 0.022	23.875
Composite	0.04093	2.88596	0.02033	441.284	0.00868	(NMOG=1.04xNMHC) 0.0321 / 0.0334	

Fuel Economy	Gasoline MPG
Phase 1	12.81
Phase 2	23.82
Composite	20.03

Dyno Settings	
Dyno #:	D329 - FWD
Inertia:	4750
EPA Set Co A:	16.01
EPA Set Co B:	0.3322
EPA Set Co C:	0.02176
Emiss-Bench:	Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0217-011 Vehicle ID: E3UF-SQ5

Results		HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
	Phase 1	0.150	7.424	0.071	1217.3	0.027	0.123	1.173
		0.177	15.607	0.092	2304.3	0.043	0.133	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	28.68	28.68		
Avg Cell Temp (degF)	74.08	73.87		
Dew Point (degF)	50.31	50.41		
Specific Humidity (grains/lbm)	56.55	56.76		
NOx Corr Factor	0.9202	0.9211		
CO2 Dilution Factor	11.684	9.548		
CFV Vmix (scf @68F)	2146.96	3301.64		
CVS Flow Rate Avg (scfm)	543.07	542.74		

Fan Placement: US06 Only - One Large Fan - Down - Front

Phase Time (secs)	130.00	365.00	107.20
Distance (miles)	1.765	6.216	
Bag Analysis Time (secs)	64.1	276.3	

MFR Test Results for Procedure 90 US06

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10025851	0.05	2.45	0.016	413	0	0.04

Odometer	MPG	PM
4282 M	21.5	0.004

MPG is 7.33 % higher than EPA MPG

MFR Lab: Audi Ingolstadt

Dyno: 8

Fuel: 61 Tier 2 Cert Gasoline

To: Wright, DavidA[Wright.DavidA@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Giles, Michael (EEO)
Sent: Tue 7/2/2013 6:57:55 PM
Subject: RE: EPA US06 28 June 2013 E3UF-SQ5

Thank you for the quick response on these David!

Regards

Mike

From: Wright, DavidA [mailto:Wright.DavidA@epa.gov]
Sent: Tuesday, July 02, 2013 2:55 PM
To: Giles, Michael (EEO)
Cc: Snyder, Jim
Subject: FW: EPA US06 28 June 2013 E3UF-SQ5

US06 Results FYI

From: EZTech_Printer [mailto:EZTek@epa.gov]
Sent: Tuesday, July 02, 2013 2:50 PM
To: Wright, DavidA
Subject: EPA US06 28 June 2013 E3UF-SQ5

To: Snyder, Jim[Snyder.Jim@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]
From: Giles, Michael (EEO)
Sent: Tue 7/2/2013 7:26:16 PM
Subject: FW: Missing an FTP test (HLP-4164)

From: Giles, Michael (EEO)
Sent: Tuesday, July 02, 2013 3:26 PM
To: 'Verify Help Desk'; Rodgers, William (EEO)
Cc: Allen, Gregory; Thomas, Richard (EEO) (Richard.Thomas@vw.com)
Subject: RE: Missing an FTP test (HLP-4164)

Thanks **Ex. 6** It looks like the last FTP has not made it into VERIFY yet.

@ David or Jim, could you check the status for us? Earlier, David gave us a reference number for the FTP: #2013-0217-010

Thanks,

Mike

From: **Ex. 6** **On Behalf Of** Verify Help Desk
Sent: Tuesday, July 02, 2013 3:17 PM
To: Rodgers, William (EEO)
Cc: Allen, Gregory; Giles, Michael (EEO)
Subject: Re: Missing an FTP test (HLP-4164)

Hello Mr. Rodgers,

I only see the following EPA tests in the system for vehicle E3UF-SQ5 / 0 :

EADX91001828
EADX91001829

EADX91001844

You may want to contact your EPA Cert Rep regarding the EPA FTP test.

Ex. 6

Verify Help Desk
Staffed by Computer Sciences Corporation,
Contractor to the Environmental Protection Agency

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Rodgers, William (EEO)" ---07/02/2013 12:10:25 PM---"Rodgers, William (EEO)" <William.Rodgers@vw.com>

"Rodgers, William (EEO)"
<William.Rodgers@vw.com>

07/02/2013 12:10 PM

To: Verify Help Desk@CSC

cc: "Giles, Michael (EEO)" <michael.giles@vw.com>, "Allen, Gregory" <Gregory.Allen@vw.com>

Subject: Missing an FTP test

Ex. 6

The last test listed (1844) hit my inbox but we are missing an FTP test that should have been input by Ann Arbor but I'm not sure if they did.

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

The status of your submission is shown below:

- Submission
  - ○ Document Name: LightDutyDecisionInformationSubmission.xml
  - ○ Transaction Id: _e159509e-01a7-4499-8a2c-fee7e6f38be9
  - ○ Date Originally Submitted: 05/14/2013

- Status History

Date	Status	Description
Tue 05/14/2013 10:46 AM	Completed	Your recent Decision Information submission has been received by the EPA and you will be notified if any additional actions on your part are required. A Submission Processing Report and any requested dataset reports can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message. The following is a summary of the processing report: Total Datasets Submitted: 1 Accepted Datasets: 1 Rejected Datasets: 0
Wed 05/15/2013 10:03 AM	Completed	Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/20/2013.
Wed 05/15/2013 11:03 AM	Completed	Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/20/2013.
Wed 05/15/2013 12:03 PM	Completed	Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/20/2013.
Wed 05/15/2013 1:03 PM	Completed	Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/20/2013.
Thu 06/20/2013 4:19 PM	Completed	EPA has completed Test Number EADX91001828 on Vehicle E3UF-SQ5 / 0. The Test Results report can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message.
Thu 06/20/2013 4:20 PM	Completed	EPA has completed Test Number EADX91001829 on Vehicle E3UF-SQ5 / 0. The Test Results report can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message.
Mon 06/24/2013	Completed	A Retest has been requested for the following vehicle : Manufacturer:

7:56 AM Wed 06/26/2013	Completed	ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/28/2013.
11:48 AM Mon 07/01/2013 10:48 PM	Completed	EPA has completed Test Number EADX91001844 on Vehicle E3UF-SQ5 / 0. The Test Results report can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message.

-
- Returned Documents
  - ○ SubmissionProcessingReport.xml
  - ○ VerifyTestResultReport_EADX91001828_r1.xml
  - ○ VerifyTestResultReport_EADX91001829_r1.xml
  - ○ VerifyTestResultReport_EADX91001844_r1.xml

To: Snyder, Jim[Snyder.Jim@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]
From: Giles, Michael (EEO)
Sent: Tue 7/2/2013 7:26:16 PM
Subject: FW: Missing an FTP test (HLP-4164)

From: Giles, Michael (EEO)
Sent: Tuesday, July 02, 2013 3:26 PM
To: 'Verify Help Desk'; Rodgers, William (EEO)
Cc: Allen, Gregory; Thomas, Richard (EEO) (Richard.Thomas@vw.com)
Subject: RE: Missing an FTP test (HLP-4164)

Thanks Ex. 6 It looks like the last FTP has not made it into VERIFY yet.

@ David or Jim, could you check the status for us? Earlier, David gave us a reference number for the FTP: #2013-0217-010

Thanks,

Mike

From: Ex. 6 **On Behalf Of** Verify Help Desk
Sent: Tuesday, July 02, 2013 3:17 PM
To: Rodgers, William (EEO)
Cc: Allen, Gregory; Giles, Michael (EEO)
Subject: Re: Missing an FTP test (HLP-4164)

Hello Mr. Rodgers,

I only see the following EPA tests in the system for vehicle E3UF-SQ5 / 0 :

EADX91001828
EADX91001829

EADX91001844

You may want to contact your EPA Cert Rep regarding the EPA FTP test.

Ex. 6

Verify Help Desk
Staffed by Computer Sciences Corporation,
Contractor to the Environmental Protection Agency

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Rodgers, William (EEO)" ---07/02/2013 12:10:25 PM---"Rodgers, William (EEO)" <William.Rodgers@vw.com>

"Rodgers, William (EEO)"
<William.Rodgers@vw.com>

07/02/2013 12:10 PM

To: Verify Help Desk@CSC

cc: "Giles, Michael (EEO)" <michael.giles@vw.com>, "Allen, Gregory" <Gregory.Allen@vw.com>

Subject: Missing an FTP test

Ex. 6

The last test listed (1844) hit my inbox but we are missing an FTP test that should have been input by Ann Arbor but I'm not sure if they did.

Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

The status of your submission is shown below:

- Submission
  - ○ Document Name: LightDutyDecisionInformationSubmission.xml
  - ○ Transaction Id: _e159509e-01a7-4499-8a2c-fee7e6f38be9
  - ○ Date Originally Submitted: 05/14/2013

- Status History

Date	Status	Description
Tue 05/14/2013 10:46 AM	Completed	Your recent Decision Information submission has been received by the EPA and you will be notified if any additional actions on your part are required. A Submission Processing Report and any requested dataset reports can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message. The following is a summary of the processing report: Total Datasets Submitted: 1 Accepted Datasets: 1 Rejected Datasets: 0
Wed 05/15/2013 10:03 AM	Completed	Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/20/2013.
Wed 05/15/2013 11:03 AM	Completed	Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/20/2013.
Wed 05/15/2013 12:03 PM	Completed	Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/20/2013.
Wed 05/15/2013 1:03 PM	Completed	Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/20/2013.
Thu 06/20/2013 4:19 PM	Completed	EPA has completed Test Number EADX91001828 on Vehicle E3UF-SQ5 / 0. The Test Results report can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message.
Thu 06/20/2013 4:20 PM	Completed	EPA has completed Test Number EADX91001829 on Vehicle E3UF-SQ5 / 0. The Test Results report can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message.
Mon 06/24/2013 7:56 AM	Completed	A Retest has been requested for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0

Wed 06/26/2013 11:48 AM	Completed	Confirmatory Test Date has been set for the following vehicle : Manufacturer: ADX Vehicle ID: E3UF-SQ5 Vehicle Configuration: 0 The test date is 06/28/2013.
Mon 07/01/2013 10:48 PM	Completed	EPA has completed Test Number EADX91001844 on Vehicle E3UF-SQ5 / 0. The Test Results report can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message.

-
- Returned Documents
  - ○ SubmissionProcessingReport.xml
  - ○ VerifyTestResultReport_EADX91001828_r1.xml
  - ○ VerifyTestResultReport_EADX91001829_r1.xml
  - ○ VerifyTestResultReport_EADX91001844_r1.xml

To: Wright, DavidA[Wright.DavidA@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]; Glas, Tobias[Tobias.Glas@vw.com]; Rhodes, Brian (EEO)[Brian.Rhodes@vw.com]
From: Giles, Michael (EEO)
Sent: Wed 7/3/2013 1:52:43 PM
Subject: RE: VW Group Re-test for Audi SQ5

Thanks David, we will follow up Monday.

-----Original Message-----
From: Wright, DavidA [mailto:Wright.DavidA@epa.gov]
Sent: Wednesday, July 03, 2013 9:48 AM
To: Giles, Michael (EEO); Snyder, Jim
Cc: Rodgers, William (EEO); Thomas, Richard (EEO); Kata, Leonard (EEO); Glas, Tobias
Subject: RE: VW Group Re-test for Audi SQ5

Michael,

I have requested a re-test for Audi SQ5. The laboratory will be closed for the 4th of July holiday until Monday, July 8th. I expect the vehicle will be scheduled for testing sometime early next week.

Feel free to contact myself or Jim Snyder if you have any other questions. Today is my last day in the office until Monday, July 8th. Jim will also be back in the office on Monday, July 8th.

Regards,

David A. Wright
Light-Duty Vehicle Center, Compliance Division National Vehicle and Fuel Emissions Laboratory
Phone: (734) 214-4467
E-mail: wright.davida@epa.gov

-----Original Message-----
From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Wednesday, July 03, 2013 8:17 AM
To: Wright, DavidA; Snyder, Jim
Cc: Rodgers, William (EEO); Thomas, Richard (EEO); Kata, Leonard (EEO); Glas, Tobias
Subject: VW Group Re-test for Audi SQ5

Hello David and Jim,

We are requesting a re-test for the FTP for the Audi SQ5, as allowed due to the FE difference of > 3%.

Our timing is very tight, so we would appreciate a re-test as early as possible. Please advise.

Thanks,
Mike

-----Original Message-----

From: Wright, DavidA [mailto:Wright.DavidA@epa.gov]
Sent: Tuesday, July 02, 2013 4:03 PM
To: Giles, Michael (EEO)
Cc: Snyder, Jim
Subject: FW: Verify Test Results Report

Hot off the Verify press.

-----Original Message-----
From: VerifyAdministrator@verifyprod.rtpnc.epa.gov
[mailto:VerifyAdministrator@verifyprod.rtpnc.epa.gov]
Sent: Tuesday, July 02, 2013 4:01 PM
To: Wright, DavidA; Snyder, Jim; Haynes, Ben; Pulaganti, Uday; Bochenek, David; **Ex. 6**
Subject: Verify Test Results Report

PLEASE DO NOT REPLY TO THIS EMAIL!

The Verify Test Results Report has been generated for the following vehicle and test:

Manufacturer: ADX
Vehicle ID: E3UF-SQ5
Vehicle Configuration: 0
Test Number: EADX91001845

Click on the link below to see the details in Verify.

https://verifyprod.rtpnc.epa.gov/verify-web/cft/ld/testInfoUpdateRetrieve.do?testDatasetId=45866

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Good, David
Sent: Wed 7/3/2013 8:12:21 PM
Subject: RE: 2010 CAFE/GHG report - Question about 2010 Lamborghini Mercielago Revention Roadster models

Richard,

Thanks for this email.

Have a nice 4th.

Dave

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Wednesday, July 03, 2013 12:52 PM
To: Good, David
Cc: Kata, Leonard (EEO)
Subject: RE: 2010 CAFE/GHG report - Question about 2010 Lamborghini Mercielago Revention Roadster models

Hello Dave;

Ex. 4 - CBI

If you have further questions, please call me.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, July 03, 2013 9:47 AM
To: Thomas, Richard (EEO)
Subject: FW: 2010 CAFE/GHG report - Question about 2010 Lamborghini Mercielago Revention Roadster models

Richard,

Thanks for your explanation about the sales of the 2010 Lamborghini Mercielago Revention Coupe & Roadster models.

Please send me a short email explanation (for the record), when you get a chance.

Thanks

From: Good, David
Sent: Thursday, June 20, 2013 6:41 PM
To: 'Thomas, Richard (EEO)'
Subject: RE: 2010 CAFE/GHG report - Question about 2010 Lamborghini Mercielago Revention Roadster models

Richard,

Here's another one.

I show that you labeled a 2010 Lamborghini Mercielago Revention Roadster (6.5L Auto AM6 trans); index 81---however we couldn't find that vehicle in VW's 2010 CAFE.

Please check and let me know if any of these were sold in the U.S.

Ex. 4 - CBI

When you get a chance, please let me know.

Thanks

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Wednesday, June 19, 2013 1:45 PM
To: Good, David
Subject: RE: 2012 CAFE/GHG report - Question about 2012 Bentley Continental Supersports model

Importance: High

Hi Dave;

Ex. 4 - CBI

One question for you today, do you think the two test groups Jim passed up for signature will be signed today? I have about nine or ten fuel economy labels associated with those test groups and I would like to get submit into Verify as I still have over two dozen total labels for 2014 to do yet. Is it Linc that has these certificates now?

Thanks,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, June 19, 2013 1:32 PM
To: Thomas, Richard (EEO)
Subject: 2012 CAFE/GHG report - Question about 2012 Bentley Continental Supersports model

Richard,

Re: 2012 CAFE/GHG report - Question about 2012 Bentley Continental Supersports model

I'm working on the 2012 gas guzzlers.

Ex. 4 - CBI

I this a mistake in the CAFE/GHG data input or were there no sales of this model?

Thanks

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Giles, Michael (EEO)
Sent: Mon 7/8/2013 12:59:53 PM
Subject: MY14 FE Data

Hello Jim,

We were looking for some MY 14 fuel economy data. In the FE data link below, we could only find MY13, last updated March 2013. Could you let us know when MY14 results might be available?

http://www.epa.gov/otaq/tcldata.htm

Also do you know if that list is typically updated quarterly?

Thanks,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Tue 7/9/2013 10:14:47 AM
Subject: Audi SQ5 (E3UF-SQ5) FTP retest

Hi Jim;

Thanks for the voice message you left yesterday. If it makes any difference to the lab and you have to set priorities; the first FTP was conducted on June 20th along with the highway and US06. The lab voided the FTP and the next scheduled retest was conducted on Friday June 28th . This Thursday or Friday will work fine if you can get it in. I still have to complete a fuel economy label for this model of which our marketing folks hope to release the week of June 22nd.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 7/10/2013 3:09:47 PM
Subject: Audi SQ5 retest - VID E3UF-SQ5

Hello Jim,

Just as a follow up to my phone message, we would like to request that the Audi SQ5 be placed on a battery charger over the weekend and until the start of the test to prevent discharging due to the ignition key being left in the car.

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Wed 7/10/2013 5:33:11 PM
Subject: RE: Audi SQ5 retest - VID E3UF-SQ5

Okay, I 've passed it on to the lab.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, July 10, 2013 11:10 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory
Subject: Audi SQ5 retest - VID E3UF-SQ5

Hello Jim,

Just as a follow up to my phone message, we would like to request that the Audi SQ5 be placed

Non-Responsive

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Allen, Gregory[Gregory.Allen@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Rodgers, William (EEO)
Sent: Thur 7/11/2013 1:07:40 PM
Subject: VW Group - Certificates pending

Hello Jim,

Just to be sure we are on the same page, I show pending Certificates for the following:

VW test group

EVWXV01.4PHE – highest priority with SOP this week.

Audi test group

EADXV02.03PA – SOP week 32, Aug 12th

Bentley test group

EBEXV06.84LA - SOP week 34, August 19th

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Petersen, Pete[petersen.pete@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Thur 7/11/2013 5:21:50 PM
Subject: RE: Submitter Request - Mfr. Code VGA

Hello Pete,

I wanted to confirm that you received the Fed Ex package we sent to you regarding the following Submitter request. It was signed for by a C. Dale on July 3rd. Also let me know what the status is. Thanks.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Rodgers, William (EEO)
Sent: Monday, July 01, 2013 3:39 PM
To: 'Petersen, Pete'
Cc: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Subject: Submitter Request - Mfr. Code VGA

Hello Pete,

I am sending you the submitter authorization request forms for myself under the newly consolidated CDX/Verify manufacturer code "VGA" for Volkswagen Group of America, Inc. I have also put the originals in a FedEx package to your attention. Please let me know if there are any questions or concerns about establishing the indicated system authorizations. Once my authorizations are established and tested I will be adding other employee names to the list of submitters.

Thanks,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Petersen, Pete [mailto:petersen.pete@epa.gov]
Sent: Monday, May 20, 2013 10:19 AM
To: Rodgers, William (EEO)
Subject: Mfr. Code VGA

Your company information has been successfully entered in the VERIFY system. The Mfr. Code VGA has been assigned.

This Code does NOT imply EPA emissions approval and may not be used to import vehicles or engines into the U.S.A., or to release impounded vehicles.

Also, please be aware that the process to obtain a CDX Users Account, in order to submit Certification data, has changed dramatically. You will find instructions at www.epa.gov/otaq/verify/setup.htm . I will attach a handy check-list that will help you in submitting all required documents as well as a copy of the Guidance Letter sent to manufacturers.

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Thur 7/11/2013 5:50:57 PM
Subject: RE: VW Group - Certificates pending

We had a submission failure for the Bentley. It was resubmitted correctly so you should see it now. Thanks for the heads up.

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, July 11, 2013 12:20 PM
To: Rodgers, William (EEO)
Subject: RE: VW Group - Certificates pending

I don't see anything in Verify regarding the Bentley. The other two are there. I'm in phone conference all day today but tomorrow looks pretty open.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Thursday, July 11, 2013 9:08 AM
To: Snyder, Jim
Cc: Allen, Gregory; Giles, Michael (EEO)
Subject: VW Group - Certificates pending

Hello Jim,

Just to be sure we are on the same page, I show pending Certificates for the following:

VW test group

EVWXV01.4PHE – highest priority with SOP this week.

Audi test group

EADXV02.03PA – SOP week 32, Aug 12th

Bentley test group

EBEXV06.84LA - SOP week 34, August 19th

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Thur 7/11/2013 6:25:34 PM
Subject: RE: VW Group - Certificates pending

I see it now.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Thursday, July 11, 2013 1:51 PM
To: Snyder, Jim
Subject: RE: VW Group - Certificates pending

We had a submission failure for the Bentley. It was resubmitted correctly so you should see it now. Thanks for the heads up.

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, July 11, 2013 12:20 PM
To: Rodgers, William (EEO)
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Sent: Thursday, July 11, 2013 9:08 AM
To: Snyder, Jim
Cc: Allen, Gregory; Giles, Michael (EEO)
Subject: VW Group - Certificates pending

Hello Jim,

Just to be sure we are on the same page, I show pending Certificates for the following:

VW test group

Ex. 4 - CBI

Audi test group

Ex. 4 - CBI

Bentley test group

Ex. 4 - CBI

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Mon 7/15/2013 12:24:28 PM
Subject: RE: VW - Certificate and Confirmatory Test
Certificate EVWXV01.4PHE.pdf

Here's is the certificate. I'll see if I can find something out on the test time.

-Jim

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Monday, July 15, 2013 7:38 AM
To: Snyder, Jim
Cc: Rodgers, William (EEO)
Subject: VW - Certificate and Confirmatory Test

Hello Jim,

We received a notice Friday that the certificate for the Jetta Hybrid (Test Group EVWXV01.4PHE and evap family EVWXR0110PHE) was issued. Would you be able to forward the PDF to me? Bill is out of the office today and I am unable to get a copy of this cert.

Lastly, could you let us know the start time for the re-test for the SQ5 Tuesday. Bill is planning to be there for the test.

Regards,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2014 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT OF 1990

OFFICE OF TRANSPORTATION AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Volkswagen**
(U.S. Manufacturer or Importer)

Certificate Number: **EVWXV01.4PHE-025**

Effective Date: 07/12/2013

Expiration Date: 12/31/2014

Byron J. Bunker, Division Director
Compliance Division

Issue Date: 07/12/2013

Revision Date: N/A

Test Group Name: EVWXV01.4PHE
Evaporative/Refueling Family Name: EVWXR0110PHE
Applicable Exhaust Emission Standards: Federal Tier 2 Bin 3
Applicable Evaporative/Refueling Standards: Federal LEV-II Evap

Engine Displacement: 1.4 Liters
Exhaust Emission Test Fuel Type: Tier 2 Cert Gasoline
Full Useful Life Miles: Exhaust Emissions: 120,000 miles
Full Useful Life Miles: Evaporative/Refueling Emissions: 120,000 miles

Models Covered: Volkswagen: Jetta Hybrid

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Pursuant to section 206 of the Clean Air Act (42 U.S.C.7525) and 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable, this certificate of conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Parts 85, 86, 88, 1037, and 600 as applicable) and which represent the new motor vehicle models listed above by test group and evaporative/refueling emission family, more fully described in the application of the above named manufacturer. Vehicles covered by this certificate have demonstrated compliance with the applicable emission standards as more fully described in the manufacturer's application. This certificate covers the above models, which are designed to meet the applicable emission standards specified in 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable at both high and low altitude as applicable.

EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1848(c), and 40 CFR 1037 as applicable.

This certificate covers only those new motor vehicles or vehicle engines which conform, in all material respects, to the design specifications that apply to those vehicles or engines described in the documentation required by 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable and which are produced during the 2014 model year production period stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable. The manufacturer shall obtain the approval of the California Air Resources Board (in the form of an executive order issued by the California Air Resources Board) prior to introducing any vehicle covered by this certificate into commerce 1) in the State of California, or 2) in a State that, under the authority of Section 177 of the Clean Air Act, has adopted and placed into effect the California standards to which this test group has been certified.

In the case of completely assembled vehicles, this certificate of conformity covers only vehicles which are completely manufactured prior to January 1, 2015. Normally incompletely assembled vehicles (such as cab chassis) may be completed after this date, provided that the basic manufacturing (including installation of the emission control system) was completed prior to January 1, 2015. This certificate does not cover vehicles sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

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To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Giles, Michael (EEO)
Sent: Mon 7/15/2013 1:17:55 PM
Subject: RE: VW - Certificate and Confirmatory Test

Thanks!

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, July 15, 2013 8:24 AM
To: Giles, Michael (EEO)
Subject: RE: VW - Certificate and Confirmatory Test

Here's is the certificate. I'll see if I can find something out on the test time.

-Jim

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Monday, July 15, 2013 7:38 AM
To: Snyder, Jim
Cc: Rodgers, William (EEO)
Subject: VW - Certificate and Confirmatory Test

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Regards,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Giles, Michael (EEO)[michael.giles@vw.com]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Mon 7/15/2013 6:14:07 PM
Subject: RE: VW - Certificate and Confirmatory Test

All I could find out for tomorrow's testing is the usual, be there by 7 am. I don't get in until 8 so tell the guard you're here for testing and mention Vince Mazaitis as contact.

-Jim

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Monday, July 15, 2013 7:38 AM
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Cc: Rodgers, William (EEO)
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mailto:michael.giles@vw.com

http://www.vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Giles, Michael (EEO)
Sent: Mon 7/15/2013 6:16:28 PM
Subject: RE: VW - Certificate and Confirmatory Test

Thanks again Jim!

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, July 15, 2013 2:14 PM
To: Giles, Michael (EEO)
Cc: Rodgers, William (EEO)
Subject: RE: VW - Certificate and Confirmatory Test

All I could find out for tomorrow's testing is the usual, be there by 7 am. I don't get in until 8 so tell the guard you're here for testing and mention Vince Mazaitis as contact.

-Jim

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Monday, July 15, 2013 7:38 AM
To: Snyder, Jim
Cc: Rodgers, William (EEO)
Subject: VW - Certificate and Confirmatory Test

Hello Jim,

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Regards,

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Michael Giles

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Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Mazaitis, Vincent
Sent: Wed 7/17/2013 6:28:43 PM
Subject: E3UF-SQ5
E3UF-SQ5_7-16-13.pdf

Hello Bill,

Sorry you got this so late! Please find enclosed the Laboratory Test Data for the Subject vehicle. If you have any questions or concerns, please contact me.

Thanks Bill,

Vince Mazaitis

CERT

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0217-012 Vehicle ID: E3UF-SQ5

Test Information

Test Date:	7/16/2013	MFR Name	AUDI
Key Start / Hot Soak:	11:22:30 / 09:47	MFR Codes:	640 ADX
Fuel Container ID:	F00023	Config #:	00
Fuel Type:	61 Tier 2 Cert Test Fuel	Transmission:	S
Test Procedure:	21 Federal fuel 2-day exhaust (w/can loa	Shift Schedule:	A09980005
Calculation Method:	Gasoline	Beginning Odometer:	004684.0 MI
Pretest Remarks:		Drive Schedule:	ftp3bag
		Soak Period:	22.5 hours

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	10.121	61.879	0.700	1.045	2.731	
Ambient	4.447	0.269	0.013	0.043	1.913	
Net Concentration	6.023	61.631	0.688	1.005	0.969	4.962

Remarks:

Phase 2						
Sample	4.228	1.108	0.204	0.679	1.819	
Ambient	4.404	0.270	0.009	0.042	1.906	
Net Concentration	0.048	0.851	0.196	0.639	0.010	0.037

Remarks:

Phase 3						
Sample	5.160	7.726	0.337	0.899	1.942	
Ambient	4.809	0.254	0.007	0.042	1.895	
Net Concentration	0.674	7.489	0.331	0.860	0.175	0.483

Remarks:

Phase 4						
Sample						
Ambient						
Net Concentration						

Remarks:

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.089	1.847	0.031	473.5	0.017	0.074 / 0.077	18.770
	0.001	0.041	0.014	478.8	0.000	0.001 / 0.001	18.683
	0.010	0.224	0.015	403.6	0.003	0.007 / 0.007	22.151
						(NMOG=1.04xNMHC)	
Weighted	0.02185	0.46521	0.01786	457.064	0.00440	0.0177 / 0.0184	

Fuel Economy	Gasoline MPG
Phase 1	18.73
Phase 2	18.64
Phase 3	22.10
Weighted	19.50

Dyno Settings	
Dyno #:	D002
Inertia:	4750
EPA Set Co A:	16.01
EPA Set Co B:	0.3322
EPA Set Co C:	0.02176
Emiss-Bench:	D002

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0217-012 Vehicle ID: E3UF-SQ5

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
							1.095
Phase 1	0.321	6.629	0.112	1699.0	0.060	0.264	
	0.004	0.157	0.054	1848.1	0.001	0.003	
	0.036	0.803	0.054	1447.9	0.011	0.026	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.34	29.33	29.33	
Avg Cell Temp (degF)	75.11	75.19	75.53	
Dew Point (degF)	51.03	50.92	50.50	
Specific Humidity (grains/lbm)	56.78	56.56	55.67	
NOx Corr Factor	0.9211	0.9203	0.9167	
CO2 Dilution Factor	12.732	19.724	14.883	
CFV Vmix (scf @68F)	3262.38	5585.69	3250.38	
CVS Flow Rate Avg (scfm)	386.00	385.18	385.04	

Fan Placement: One Fan - Down - Front

Phase Time (secs)	507.10	870.10	506.51
Distance (miles)	3.588	3.860	3.588
Bag Analysis Time (secs)	143.0	142.2	141.6

MFR Test Results for Procedure 21 Federal fuel 2-day exhaust (w/can load)

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10025853	0.0218	0.47	0.022	425	0	0.0174

Odometer	MPG	PM
4320 M	21	0.004

MPG is 7.69 % higher than EPA MPG

MFR Lab: Audi Ingolstadt

Dyno: 8

Fuel: 61 Tier 2 Cert Gasoline

To: Rodgers, William (EEO)[William.Rodgers@vw.com]; Mazaitis, Vincent[mazaitis.vincent@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Snyder, Jim
Sent: Thur 7/18/2013 12:41:07 PM
Subject: RE: Audi SQ5 Release Request - 3UF-SQ5

Okay.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Thursday, July 18, 2013 7:42 AM
To: Mazaitis, Vincent; Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory
Subject: Audi SQ5 Release Request - 3UF-SQ5

Hello guys,

We are finished testing the Audi SQ5 VID-3UF-SQ5, please release it for transporter pick up. We hope to retrieve the vehicle today or tomorrow.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: richard.thomas@vw.com[richard.thomas@vw.com]; jyarrow@astonmartin.com[jyarrow@astonmartin.com]; thomas.hofmann@bmwna.com[thomas.hofmann@bmwna.com]; kachuen.wong@bmwna.com[kachuen.wong@bmwna.com]; j.foor@chrysler.com[j.foor@chrysler.com]; asw9@chrysler.com[asw9@chrysler.com]; Dave Barker[dba1@subaru.com]; elarue1@ford.com[elarue1@ford.com]; jcusuman@ford.com[jcusuman@ford.com]; doug.devries@gm.com[doug.devries@gm.com]; deborah.a.zielesch@gm.com[deborah.a.zielesch@gm.com]; laura.l.parker@gm.com[laura.l.parker@gm.com]; peter_meier@ahm.honda.com[peter_meier@ahm.honda.com]; Darin_Johnson@AHM.Honda.com[Darin_Johnson@AHM.Honda.com]; Tony D'Ambrosi[adambrosi@hatci.com]; Simon (Seungwon) Shin[seungwon@hatci.com]; vvarjabe@jaguar.com[vvarjabe@jaguar.com]; vvarjabe@jaguarlandrover.com[vvarjabe@jaguarlandrover.com]; rseal3@jaguar.com[rseal3@jaguar.com]; kareen.toussagnon@daimler.com[kareen.toussagnon@daimler.com]; markus.loesch@daimler.com[markus.loesch@daimler.com]; roland.mulde@daimler.com[roland.mulde@daimler.com]; john.gantchar@na.mitsubishi-motors.com[john.gantchar@na.mitsubishi-motors.com]; david.patterson@na.mitsubishi-motors.com[david.patterson@na.mitsubishi-motors.com]; KhanF@NRD.NISSAN-USA.COM[KhanF@NRD.NISSAN-USA.COM]; yamaday@ntcna.nissan-usa.com[yamaday@ntcna.nissan-usa.com]; ross.gatzke@porsche.us[ross.gatzke@porsche.us]; luis.hernandez@suz.com[luis.hernandez@suz.com]; drobertson@mazdausa.com[drobertson@mazdausa.com]; nokawa@mazdausa.com[nokawa@mazdausa.com]; Masahiro Konno[masahiro.konno@tema.toyota.com]; matthew.kevnick@tema.toyota.com[matthew.kevnick@tema.toyota.com]; gbuffali@volvocars.com[gbuffali@volvocars.com]; French, Roberts[french.roberts@epa.gov]; Wehrly, Linc[wehrly.linc@epa.gov]
From: Good, David
Sent: Fri 7/19/2013 7:16:40 PM
Subject: 2014 FE Guide - Timing for posting 2014 vehicles on www.fueleconomy.gov

To manufacturer representatives who handle 2014 FE Labels:

For the next few months, DOE & I will update www.fueconomy.gov 4 times a month, instead of twice a month.

Here's my new plan:

1. I'll send DOE a complete 2014 dataset on the 1st and 15th of the month as usual (or a couple days later---depending on my days off, work load, etc). I'll also send DOE some "adds" on approx the 9th and 23rd of the month (depending on my work schedule, weekends etc.) The "adds" will be error free data from the previous query of Verify database (on the 1st or 15th of the month) which have the appropriate release dates. For example, on August 9th, I'll send DOE a file of 2014 FE labels with release dates from August 2nd to August 9th from the August 1st query of the Verify database. [I won't do a fresh query of the Verify database on August 9th.]

2. Also, if a manufacturer wants EPA/DOE to post 2014 FE labels on www.fueleconomy.gov on a certain date (e.g. to coincide with a manufacturer's press release), please send me an email request outlining what data to post (manufacturer name and Index numbers) and the date and time when you would like it posted. I can't handle a large volume of these requests----but I'll be glad to work with you on some special vehicle introductions. Please email your request to me 1-2 weeks or so before you would like it posted and try to make sure that there are no errors in Verify for the data to be posted. DOE and I will arrange to have the data posted fairly soon after the specified date & time.

No guarantee on these requests for special releases. I'll see how many requests I get, and let you know if I'm overwhelmed.

Please let me know if you have any questions (or suggestions) about this new plan.

Thanks

Dave

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Fri 7/19/2013 9:12:57 PM
Subject: re: 2014 FE Guide - Errors in EPA's data base as of July 16, 2013
VW_Group_2014 FEGuide-all rel dates-no-sales-7-16-2013.xlsx

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of July 16, 2013

Attached are the data in Verify as of July 16, 2013. Labels with pea green fill in the first few columns have errors which need to be corrected before I can have the data posted on www.fueleconomy.gov.

The next normal posting of 2014 FE Label data will be on August 1, 2013 or so (on a monthly schedule where I run the query on the 1st and 15th of the month). Additionally on July 23, 2013, we'll post 2014 FE Label data which was error-free in Verify as of July 16, 2013 and had a release date of July 17-23, 2013.

If you need an important 2014 FE Label posted on the web before the next posting, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections to Verify when you get a chance.

Thanks

EPA comm	VERIFY cc	Model Yr (Mfr Name	Division (t	Carline	Verify Mfr	Index (Mo	Eng Displ	# Cyl
		2014 Audi	Audi	A4	ADX	67	2.0	4
		2014 Audi	Audi	A4 quattro	ADX	64	2.0	4
		2014 Audi	Audi	A4 quattro	ADX	71	2.0	4
		2014 Audi	Audi	A5 Cabriolet	ADX	68	2.0	4
		2014 Audi	Audi	A5 Cabriolet quattro	ADX	66	2.0	4
		2014 Audi	Audi	A5 quattro	ADX	65	2.0	4
		2014 Audi	Audi	A5 quattro	ADX	72	2.0	4
		2014 Audi	Audi	A6	ADX	69	2.0	4
		2014 Audi	Audi	A6 quattro	ADX	70	2.0	4
		2014 Audi	Audi	A6 quattro	ADX	54	3.0	6
Diesel;		2014 Audi	Audi	A6 quattro	ADX	15	3.0	6
Diesel;		2014 Audi	Audi	A7 quattro	ADX	16	3.0	6
		2014 Audi	Audi	A7 quattro	ADX	53	3.0	6
		2014 Audi	Audi	A8	ADX	51	3.0	6
		2014 Audi	Audi	A8	ADX	18	4.0	8
Diesel;		2014 Audi	Audi	A8L	ADX	1	3.0	6
		2014 Audi	Audi	A8L	ADX	52	3.0	6
		2014 Audi	Audi	A8L	ADX	17	4.0	8
		2014 Audi	Audi	A8L	ADX	61	6.3	12
		2014 Audi	Audi	allroad quattro	ADX	63	2.0	4
		2014 Audi	Audi	Q5	ADX	62	2.0	4
		2014 Audi	Audi	Q5	ADX	60	3.0	6
Diesel;		2014 Audi	Audi	Q5	ADX	14	3.0	6
Hybrid;		2014 Audi	Audi	Q5 Hybrid	ADX	50	2.0	4
Diesel;		2014 Audi	Audi	Q7	ADX	24	3.0	6
		2014 Audi	Audi	Q7	ADX	36	3.0	6
		2014 Audi	Audi	R8	ADX	5	4.2	8
		2014 Audi	Audi	R8	ADX	9	4.2	8
		2014 Audi	Audi	R8	ADX	3	5.2	10
		2014 Audi	Audi	R8	ADX	7	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	4	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	8	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	2	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	6	5.2	10
		2014 Audi	Audi	RS5	ADX	28	4.2	8
		2014 Audi	Audi	RS5 Cabriolet	ADX	29	4.2	8
		2014 Audi	Audi	RS7	ADX	22	4.0	8
		2014 Audi	Audi	S4	ADX	55	3.0	6
		2014 Audi	Audi	S4	ADX	58	3.0	6
		2014 Audi	Audi	S5	ADX	56	3.0	6
		2014 Audi	Audi	S5	ADX	59	3.0	6
		2014 Audi	Audi	S5 Cabriolet	ADX	57	3.0	6
		2014 Audi	Audi	S6	ADX	21	4.0	8
		2014 Audi	Audi	S7	ADX	20	4.0	8
		2014 Audi	Audi	S8	ADX	19	4.0	8
		2014 Audi	Audi	TT Coupe quattro	ADX	38	2.0	4
		2014 Audi	Audi	TT Roadster quattro	ADX	39	2.0	4
		2014 Bentley	Bentley Motors Ltd	Continental GT	BEX	26	4.0	8
		2014 Bentley	Bentley Motors Ltd	Continental GT	BEX	13	6.0	12
		2014 Bentley	Bentley Motors Ltd	Continental GT Speed Convertible	BEX	12	6.0	12
		2014 Bentley	Bentley Motors Ltd	Continental GTC	BEX	25	4.0	8
		2014 Bentley	Bentley Motors Ltd	Continental GTC	BEX	11	6.0	12

	2014	Bentley	Bentley Motors Ltd	Flying Spur	BEX	10	6.0	12
	2014	Bugatti	Bugatti	Veyron	BGT	27	8.0	16
	2014	Lamborghi	Lamborghini	Aventador	NLX	92	6.5	12
	2014	Lamborghi	Lamborghini	Aventador	NLX	94	6.5	12
	2014	Lamborghini	Lamborghini	Aventador Roa	Roadster	93	6.5	12
	2014	Lamborghini	Lamborghini	Gallardo Coupe	NLX	32	5.2	10
	2014	Lamborghi	Lamborghini	Gallardo C	NLX	34	5.2	10
	2014	Lamborghi	Lamborghini	Gallardo S	NLX	33	5.2	10
	2014	Lamborghi	Lamborghini	Gallardo S	NLX	35	5.2	10
Diesel;	2014	Volkswagen	Volkswagen	BEETLE	VWX	46	2.0	4
	2014	Volkswagen	Volkswagen	BEETLE	VWX	76	2.0	4
Diesel;	2014	Volkswagen	Volkswagen	BEETLE	VWX	48	2.0	4
	2014	Volkswagen	Volkswagen	BEETLE	VWX	99	2.5	5
	2014	Volkswagen	Volkswagen	BEETLE	VWX	102	2.5	5
Diesel;	2014	Volkswagen	Volkswagen	BEETLE CONVERTIBLE	VWX	47	2.0	4
	2014	Volkswagen	Volkswagen	BEETLE CONVERTIBLE	VWX	77	2.0	4
Diesel;	2014	Volkswagen	Volkswagen	BEETLE CONVERTIBLE	VWX	49	2.0	4
	2014	Volkswagen	Volkswagen	BEETLE CONVERTIBLE	VWX	100	2.5	5
	2014	Volkswagen	Volkswagen	CC	VWX	74	2.0	4
	2014	Volkswagen	Volkswagen	CC	VWX	75	2.0	4
	2014	Volkswagen	Volkswagen	CC 4MOTION	VWX	31	3.6	6
	2014	Volkswagen	Volkswagen	Eos	VWX	78	2.0	4
Diesel;	2014	Volkswagen	Volkswagen	GOLF	VWX	42	2.0	4
Diesel;	2014	Volkswagen	Volkswagen	GOLF	VWX	45	2.0	4
	2014	Volkswagen	Volkswagen	GOLF	VWX	98	2.5	5
	2014	Volkswagen	Volkswagen	Jetta	VWX	88	1.8	4
	2014	Volkswagen	Volkswagen	Jetta	VWX	86	1.8	4
Diesel;	2014	Volkswagen	Volkswagen	Jetta	VWX	41	2.0	4
	2014	Volkswagen	Volkswagen	Jetta	VWX	90	2.0	4
	2014	Volkswagen	Volkswagen	Jetta	VWX	103	2.0	4
	2014	Volkswagen	Volkswagen	Jetta	VWX	104	2.0	4
Diesel;	2014	Volkswagen	Volkswagen	Jetta	VWX	44	2.0	4
	2014	Volkswagen	Volkswagen	Jetta	VWX	91	2.0	4
Hybrid; An Y	2014	Volkswage	Volkswage	Jetta Hybri	VWX	105	1.4	4
Diesel;	2014	Volkswagen	Volkswagen	JETTA SPORTWAGEN	VWX	40	2.0	4
Diesel;	2014	Volkswagen	Volkswagen	JETTA SPORTWAGEN	VWX	43	2.0	4
	2014	Volkswagen	Volkswagen	JETTA SPORTWAGEN	VWX	97	2.5	5
	2014	Volkswagen	Volkswagen	JETTA SPORTWAGEN	VWX	101	2.5	5
	2014	Volkswagen	Volkswagen	Passat	VWX	89	1.8	4
	2014	Volkswagen	Volkswagen	Passat	VWX	87	1.8	4
Diesel;	2014	Volkswagen	Volkswagen	Passat	VWX	84	2.0	4
Diesel;	2014	Volkswagen	Volkswagen	Passat	VWX	85	2.0	4
	2014	Volkswagen	Volkswagen	Passat	VWX	95	2.5	5
	2014	Volkswagen	Volkswagen	Passat	VWX	96	2.5	5
	2014	Volkswagen	Volkswagen	Passat	VWX	30	3.6	6
	2014	Volkswagen	Volkswagen	TIGUAN	VWX	80	2.0	4
	2014	Volkswagen	Volkswagen	TIGUAN	VWX	81	2.0	4
	2014	Volkswagen	Volkswagen	TIGUAN 4MOTION	VWX	79	2.0	4
Diesel;	2014	Volkswagen	Volkswagen	TOUAREG	VWX	23	3.0	6
	2014	Volkswagen	Volkswagen	TOUAREG	VWX	73	3.6	6
Hybrid;	2014	Volkswagen	Volkswagen	Touareg Hybrid	VWX	37	3.0	6

Trans as I	City FE (G	Hwy FE (C	Comb FE	Low'd City	Low'd HW	Low'd Cor	City Unad	Hwy Unad	Comb Una
Auto(AV-S8)	24	32	27				30.1192	44.4335	35.2258
Auto(S8)	20	29	24				25.8050	40.5698	30.8588
Manual(M6)	22	32	26				27.6240	43.9699	33.1736
Auto(AV-S8)	24	32	27				30.1192	44.4335	35.2258
Auto(S8)	20	29	24				25.8050	40.5698	30.8588
Auto(S8)	20	29	24				25.8050	40.5698	30.8588
Manual(M6)	22	32	26				27.6240	43.9699	33.1736
Auto(AV-S8)	25	33	28				31.4000	46.9000	36.8857
Auto(S8)	20	29	23				24.8000	40.5000	30.0404
Auto(S8)	18	27	22				23.1369	38.1000	28.1037
Auto(S8)	24	38	29				30.6987	52.4000	37.7304
Auto(S8)	24	38	29				30.6987	52.4000	37.7304
Auto(S8)	18	28	21				22.3364	37.2698	27.2497
Auto(S8)	18	28	21				22.3364	37.2698	27.2497
Auto(S8)	17	28	21				21.7885	38.4000	27.0553
Auto(S8)	24	36	28				29.9399	51.4000	36.8664
Auto(S8)	18	28	21				22.3364	37.2698	27.2497
Auto(S8)	16	26	19				19.8586	33.9000	24.4081
Auto(S8)	13	21	16				15.9000	25.7000	19.1935
Auto(S8)	20	27	23				25.2000	37.3000	29.5075
Auto(S8)	20	28	23				24.8000	38.6000	29.5548
Auto(S8)	18	26	21				22.8446	35.5000	27.2096
Auto(S8)	24	31	27				29.1832	43.5000	34.2568
Auto(S8)	24	30	26				30.4000	39.9000	34.0480
Auto(S8)	19	28	22				22.8000	39.1000	28.0649
Auto(S8)	16	22	18				19.4000	30.0000	23.0678
Auto(AM-S7)	14	23	17				16.4710	29.7396	20.6087
Manual(M6)	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S7)	13	22	16				15.4000	28.8067	19.4796
Manual(M6)	12	19	14				13.7000	23.3840	16.8379
Auto(AM-S7)	14	23	17				16.4710	29.7396	20.6087
Manual(M6)	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S7)	13	22	16				15.4000	28.8067	19.4796
Manual(M6)	12	19	14				13.7000	23.3840	16.8379
Auto(AM-S7)	16	23	18				19.1000	30.0000	22.8332
Auto(AM-S7)	16	22	18				19.2000	28.9000	22.6159
Auto(S8)	16	27	19				19.1000	35.3000	24.0710
Auto(AM-S7)	18	28	21				22.4000	35.8000	26.9372
Manual(M6)	17	26	20				20.0000	33.4000	24.4063
Auto(AM-S7)	18	28	21				22.4000	35.8000	26.9372
Manual(M6)	17	26	20				20.0000	33.4000	24.4063
Auto(AM-S7)	18	26	21				22.1000	34.7000	26.4165
Auto(AM-S7)	17	27	20				20.7158	35.0541	25.3890
Auto(AM-S7)	17	27	20				20.7158	35.0541	25.3890
Auto(S8)	15	26	19				19.0000	33.3000	23.5511
Auto(AM-S6)	22	31	26				28.3321	42.1097	33.2237
Auto(AM-S6)	22	31	26				28.3321	42.1097	33.2237
Auto(S8)	15	24	18				19.0000	33.5000	23.5959
Auto(S8)	12	21	15				15.4000	28.3000	19.3741
Auto(S8)	12	20	15				14.4000	26.7000	18.1658
Auto(S8)	14	24	17				17.4000	30.8000	21.6358
Auto(S8)	12	20	15				14.4000	26.7000	18.1658

Auto(S8)	12	20	15	14.4000	26.7000	18.1658
Auto(AM-S7)	8	15	10	10.0000	17.9000	12.4782
Auto(AM-S	11	18	13	12.6000	25.2000	16.2581
Auto(AM-S	11	17	13	12.5000	22.7000	15.6681
Auto(AM-S7)	10	16	12	11.5000	21.2000	14.4817
Auto(AM-S6)	13	20	16	16.1000	25.4000	19.2760
Manual(M6	12	20	15	14.0000	24.0000	17.2308
Auto(AM-S	13	20	16	16.0000	25.4000	19.1970
Manual(M6	12	20	14	13.0000	22.6000	16.0722
Auto(AM-S6)	29	39	32	37.3000	55.3000	43.7011
Auto(AM-S6)	24	30	26	29.1673	42.3326	33.9134
Manual(M6)	28	41	32	36.0825	58.0474	43.4875
Auto(S6)	22	29	25	27.3682	39.0016	31.6112
Manual(M5)	22	31	25	26.4371	42.9104	31.9580
Auto(AM-S6)	28	37	31	36.4000	51.9000	42.0514
Auto(AM-S6)	23	29	25	28.8646	40.8000	33.2404
Manual(M6)	28	41	32	36.0825	58.0474	43.4875
Auto(S6)	21	27	23	26.4827	37.7774	30.5996
Auto(AM-S6)	22	31	25	26.9760	42.4872	32.2790
Manual(M6)	21	32	25	25.7137	43.8700	31.5986
Auto(S6)	17	25	20	20.5000	33.5000	24.8373
Auto(AM-S6)	22	30	25	27.5000	41.5000	32.4219
Auto(AM-S6)	30	42	34	39.0952	59.2783	46.1691
Manual(M6)	30	42	34	38.7301	59.7524	46.0153
Auto(S6)	23	30	26	27.0790	41.9473	32.2178
Auto(S6)	25	36	29	31.4506	49.1933	37.5441
Manual(M5)	26	36	30	32.3820	49.5230	38.3561
Auto(AM-S6)	30	42	34	39.0952	59.2783	46.1691
Auto(AM-S6)	24	32	27	29.5629	44.4634	34.8128
Auto(S6)	23	29	25	28.1000	41.4990	32.8768
Manual(M5)	24	34	28	28.8000	46.2000	34.6771
Manual(M6)	30	42	34	38.7301	59.7524	46.0153
Manual(M6)	23	33	26	28.2818	45.1635	34.0010
eeded Auto(AM-S	42	48	45	57.5000	65.3000	60.7663
Auto(AM-S6)	29	39	33	37.6000	56.2000	44.1798
Manual(M6)	30	42	34	38.7301	59.7524	46.0153
Auto(S6)	23	30	26	27.0790	41.9473	32.2178
Manual(M5)	23	33	26	26.2086	44.0648	32.0537
Auto(S6)	24	34	28	29.9264	48.2897	36.1048
Manual(M5)	24	35	28	30.2365	48.2157	36.3333
Auto(AM-S6)	30	40	34	37.9000	56.8000	44.5744
Manual(M6)	31	43	35	38.2000	62.8000	46.3746
Auto(S6)	22	31	25	27.0521	40.8408	31.8984
Manual(M5)	22	32	26	26.1092	42.8028	31.6669
Auto(AM-S6)	20	28	23	23.9000	37.3000	28.5088
Auto(S6)	21	26	23	25.9873	36.0386	29.7169
Manual(M6)	18	26	21	21.7000	35.8000	26.3745
Auto(S6)	20	26	23	25.7719	36.0257	29.5577
Auto(S8)	20	29	23	24.1000	22.4000	23.3041
Auto(S8)	17	23	19	21.3000	31.6000	24.9612
Auto(S8)	20	24	21	25.1000	33.1000	28.1631

City Unrd	Hwy Unrd	Comb Unr	Guzzler?	Air Aspir I	Air Aspira	Trans	Trans Des	Trans, Otl	# Gears	
23.5414	31.5409	26.5744		TC	Turbocharged	SCV	Selectable Continuously Variable		8	(e.g. C
20.4020	28.9490	23.5279		TC	Turbocharged	SA	Semi-Automatic		8	
22.2425	32.0861	25.8049		TC	Turbocharged	M	Manual		6	
23.5414	31.5409	26.5744		TC	Turbocharged	SCV	Selectable Continuously Variable		8	(e.g. C
20.4020	28.9490	23.5279		TC	Turbocharged	SA	Semi-Automatic		8	
20.4020	28.9490	23.5279		TC	Turbocharged	SA	Semi-Automatic		8	
22.2425	32.0861	25.8049		TC	Turbocharged	M	Manual		6	
24.5044	32.5529	27.5721		TC	Turbocharged	SCV	Selectable Continuously Variable		8	(e.g. C
19.6106	28.8603	22.9156		TC	Turbocharged	SA	Semi-Automatic		8	
18.3949	27.2332	21.5408		SC	Supercharged	SA	Semi-Automatic		8	
24.4094	38.0485	29.1042		TC	Turbocharged	SA	Semi-Automatic		8	
24.4094	38.0485	29.1042		TC	Turbocharged	SA	Semi-Automatic		8	
17.7150	27.5586	21.1077		SC	Supercharged	SA	Semi-Automatic		8	
17.7150	27.5586	21.1077		SC	Supercharged	SA	Semi-Automatic		8	
17.2616	28.4347	20.9695		TC	Turbocharged	SA	Semi-Automatic		8	
23.8727	36.3252	28.2271		TC	Turbocharged	SA	Semi-Automatic		8	
17.7150	27.5586	21.1077		SC	Supercharged	SA	Semi-Automatic		8	
16.0273	25.8053	19.3219		TC	Turbocharged	SA	Semi-Automatic		8	
13.1387	20.6025	15.6978	G	NA	Naturally Aspirated	SA	Semi-Automatic		8	
19.9584	26.6824	22.5112		TC	Turbocharged	SA	Semi-Automatic		8	
19.6619	27.5771	22.5781		TC	Turbocharged	SA	Semi-Automatic		8	
17.8443	25.5746	20.6536		SC	Supercharged	SA	Semi-Automatic		8	
23.6266	31.3636	26.5783		TC	Turbocharged	SA	Semi-Automatic		8	
24.0075	29.7936	26.3065		TC	Turbocharged	SA	Semi-Automatic		8	
18.7400	27.6200	21.9099		TC	Turbocharged	SA	Semi-Automatic		8	
15.5983	21.6157	17.8322		SC	Supercharged	SA	Semi-Automatic		8	
13.5719	22.6008	16.5465	G	NA	Naturally Aspirated	AMS	Automated Manual-	Selectable	7	(e.g. Au
11.4775	20.2021	14.2461	G	NA	Naturally Aspirated	M	Manual		6	
12.9942	22.2057	15.9766	G	NA	Naturally Aspirated	AMS	Automated Manual-	Selectable	7	(e.g. Au
11.7089	19.3501	14.2392	G	NA	Naturally Aspirated	M	Manual		6	
13.5719	22.6008	16.5465	G	NA	Naturally Aspirated	AMS	Automated Manual-	Selectable	7	(e.g. Au
11.4775	20.2021	14.2461	G	NA	Naturally Aspirated	M	Manual		6	
12.9942	22.2057	15.9766	G	NA	Naturally Aspirated	AMS	Automated Manual-	Selectable	7	(e.g. Au
11.7089	19.3501	14.2392	G	NA	Naturally Aspirated	M	Manual		6	
15.7409	23.3075	18.4339		NA	Naturally Aspirated	AMS	Automated Manual-	Selectable	7	(e.g. Au
15.8793	22.1836	18.2078		NA	Naturally Aspirated	AMS	Automated Manual-	Selectable	7	(e.g. Au
15.5443	26.5981	19.1200		TC	Turbocharged	SA	Semi-Automatic		8	
18.1170	27.5580	21.4190		SC	Supercharged	AMS	Automated Manual-	Selectable	7	(e.g. Au
17.0438	26.0230	20.1767		SC	Supercharged	M	Manual		6	
18.1170	27.5580	21.4190		SC	Supercharged	AMS	Automated Manual-	Selectable	7	(e.g. Au
17.0438	26.0230	20.1767		SC	Supercharged	M	Manual		6	
17.6699	25.9530	20.6333		SC	Supercharged	AMS	Automated Manual-	Selectable	7	(e.g. Au
16.7439	26.8255	20.1520		TC	Turbocharged	AMS	Automated Manual-	Selectable	7	(e.g. Au
16.7439	26.8255	20.1520		TC	Turbocharged	AMS	Automated Manual-	Selectable	7	(e.g. Au
15.2801	25.5632	18.6574		TC	Turbocharged	SA	Semi-Automatic		8	
22.3380	31.0856	25.5769		TC	Turbocharged	AMS	Automated Manual-	Selectable	6	(e.g. Au
22.3380	31.0856	25.5769		TC	Turbocharged	AMS	Automated Manual-	Selectable	6	(e.g. Au
15.0109	24.4645	18.1706		TC	Turbocharged	SA	Semi-Automatic		8	
12.4737	21.0866	15.2827	G	TC	Turbocharged	SA	Semi-Automatic		8	
12.0228	20.0478	14.6643	G	TC	Turbocharged	SA	Semi-Automatic		8	
14.0639	23.9773	17.2766	G	TC	Turbocharged	SA	Semi-Automatic		8	
12.0228	20.0478	14.6643	G	TC	Turbocharged	SA	Semi-Automatic		8	

12.0228	20.0478	14.6643	G	TC	Turbocharged	SA	Semi-Automatic	8
8.4232	14.7698	10.4424	G	TC	Turbocharged	AMS	Automated Manual- Selectable 7 (e.g. Au
10.6055	18.4729	13.1199	G	NA	Naturally Aspirated	AMS	Automated	7
10.6353	16.9743	12.7836	G	NA	Naturally Aspirated	AMS	Automated	7
9.7957	16.2453	11.9264	G	NA	Naturally Aspirated	AMS	Automated Manual- Selectable 7 (e.g. Au
13.4655	19.7573	15.7180	G	NA	Naturally Aspirated	AMS	Automated Manual- Selectable 6 (e.g. Au
12.0883	19.9831	14.7021	G	NA	Naturally Aspirated	M	Manual	6
13.3954	19.7741	15.6701	G	NA	Naturally Aspirated	AMS	Automated	6
11.5388	19.5451	14.1465	G	NA	Naturally Aspirated	M	Manual	6
28.6469	38.8700	32.4925		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
23.6914	29.5911	26.0264		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
27.8088	40.6616	32.4203		TC	Turbocharged	M	Manual	6
22.2726	28.5657	24.7236		NA	Naturally Aspirated	SA	Semi-Automatic	6
21.7373	30.6904	25.0221		NA	Naturally Aspirated	M	Manual	5
28.0188	36.6005	31.3238		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
22.7003	28.5550	25.0076		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
27.8088	40.6616	32.4203		TC	Turbocharged	M	Manual	6
21.2156	26.9734	23.4701		NA	Naturally Aspirated	SA	Semi-Automatic	6
21.8712	31.0324	25.2218		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
20.7932	31.7441	24.6143		TC	Turbocharged	M	Manual	6
16.9415	25.2190	19.8774		NA	Naturally Aspirated	SA	Semi-Automatic	6
21.7634	30.1121	24.8658		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
29.8913	41.5066	34.1978		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
29.6183	41.8508	34.1040		TC	Turbocharged	M	Manual	6
23.0923	30.3667	25.8824		NA	Naturally Aspirated	SA	Semi-Automatic	6
25.2476	35.5136	29.0230		TC	Turbocharged	SA	Semi-Automatic	6
25.8912	35.6271	29.5215		TC	Turbocharged	M	Manual	5
29.8913	41.5066	34.1978		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
23.5751	31.8631	26.7004		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
23.1009	29.1554	25.4822		NA	Naturally Aspirated	SA	Semi-Automatic	6
24.3944	33.6309	27.8344		NA	Naturally Aspirated	M	Manual	5
29.6183	41.8508	34.1040		TC	Turbocharged	M	Manual	6
22.8967	32.6145	26.4421		TC	Turbocharged	M	Manual	6
42.0354	48.2310	44.6144		TC	Turbocharged	AMS	Automated	7
28.8556	39.4682	32.8278		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
29.6183	41.8508	34.1040		TC	Turbocharged	M	Manual	6
23.0923	30.3667	25.8824		NA	Naturally Aspirated	SA	Semi-Automatic	6
22.5184	33.2675	26.3496		NA	Naturally Aspirated	M	Manual	5
24.0436	33.5272	27.5504		TC	Turbocharged	SA	Semi-Automatic	6
24.4546	34.5968	28.1709		TC	Turbocharged	M	Manual	5
30.4633	40.2057	34.1916		TC	Turbocharged	AMS	Automated Manual- Selectable 6 (e.g. Au
30.8024	42.6219	35.1943		TC	Turbocharged	M	Manual	6
22.1883	30.6704	25.3422		NA	Naturally Aspirated	SA	Semi-Automatic	6
21.9815	32.1245	25.6219		NA	Naturally Aspirated	M	Manual	5
19.7174	27.8048	22.6868		NA	Naturally Aspirated	AMS	Automated Manual- Selectable 6 (e.g. Au
20.5496	25.7855	22.6161		TC	Turbocharged	SA	Semi-Automatic	6
18.1488	26.2617	21.0791		TC	Turbocharged	M	Manual	6
20.3813	25.8032	22.5097		TC	Turbocharged	SA	Semi-Automatic	6
19.6490	28.9961	22.9829		TC	Turbocharged	SA	Semi-Automatic	8
17.0411	22.7325	19.2048		NA	Naturally Aspirated	SA	Semi-Automatic	8
19.8843	23.7762	21.4655		SC	Supercharged	SA	Semi-Automatic	8

Lockup Tc	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
M (M1 with paddles)	N	F	2-Wheel Drive, Front	EADXV02.03UB	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ02.0FUB	85		406	GP	Gasoline (Premium
N	N	A	All Wheel Drive	EADXV02.03UB	10			GP	Gasoline (Premium
M (M1 with paddles)	N	F	2-Wheel Drive, Front	EADXV02.03UB	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ02.0FUB	85		406	GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ02.0FUB	85		406	GP	Gasoline (Premium
N	N	A	All Wheel Drive	EADXV02.03UB	10			GP	Gasoline (Premium
M (M1 with paddles)	N	F	2-Wheel Drive, Front	EADXV02.03UB	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXV02.03UB	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ03.04UG			5	DU	Diesel, ultra low s
Y	N	A	All Wheel Drive	EADXJ03.04UG			5	DU	Diesel, ultra low s
Y	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXV04.03UJ	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ03.04UG			5	DU	Diesel, ultra low s
Y	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXV04.03UJ	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EWWXV06.3UA8	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ02.0FUB	85		389	GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ02.0FUB	85		455	GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXJ03.04UG			5	DU	Diesel, ultra low s
Y	N	A	All Wheel Drive	EADXT02.0HUB	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXT03.03UG			5	DU	Diesel, ultra low s
Y	N	A	All Wheel Drive	EADXT03.0TLF	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV04.2375	10			GP	Gasoline (Premium
N	N	A	All Wheel Drive	EADXV04.2375	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV05.2LR8	10			GP	Gasoline (Premium
N	N	A	All Wheel Drive	EADXV05.2LR8	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV04.2375	10			GP	Gasoline (Premium
N	N	A	All Wheel Drive	EADXV04.2375	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV05.2LR8	10			GP	Gasoline (Premium
N	N	A	All Wheel Drive	EADXV05.2LR8	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV04.23UL	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV04.23UL	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXV04.03UJ	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
N	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
N	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXJ03.03UF	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV04.03UJ	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV04.03UJ	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXV04.03UJ	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV02.03UA	10			GP	Gasoline (Premium
Y (Automated Manual with paddles)	N	A	All Wheel Drive	EADXV02.03UA	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXV04.03UJ	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EBEXV06.04UC	85		357	GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EBEXV06.04UC	85		357	GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXV04.03UJ	10			GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EBEXV06.04UC	85		357	GP	Gasoline (Premium

Y	N	A	All Wheel Drive	EBEXV06.04UC	85	357	GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EBGTV08.0V16	10		GPR	Gasoline (Premium
tomated Manual with paddles)			All Wheel Drive	ENLXV06.	10		GPR	Gasoline (I
tomated Manual with paddles)			All Wheel Drive	ENLXV06.	10		GPR	Gasoline (I
Y	N	A	All Wheel Drive	ENLXV06.5L83	10		GPR	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXV05.2LR8	10		GP	Gasoline (Premium
N	N	A	All Wheel Drive	EADXV05.	10		GP	Gasoline (I
tomated Manual with paddles)			All Wheel Drive	EADXV05.	10		GP	Gasoline (I
N	N	A	All Wheel Drive	EADXV05.	10		GP	Gasoline (I
Y	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
Y	N	F	2-Wheel Drive, Front	EVWFV03.0B5F	10		GP	Gasoline (Premium
N	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
Y	N	F	2-Wheel Drive, Front	EVWFV03.5U3A	10		G	Gasoline (Regular
N	N	F	2-Wheel Drive, Front	EVWFV03.5U3M	10		G	Gasoline (Regular
Y	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
Y	N	F	2-Wheel Drive, Front	EVWFV03.0B5F	10		GP	Gasoline (Premium
N	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
Y	N	F	2-Wheel Drive, Front	EVWFV03.5U3A	10		G	Gasoline (Regular
Y	N	F	2-Wheel Drive, Front	EVWFV02.03UA	10		GP	Gasoline (Premium
N	N	F	2-Wheel Drive, Front	EVWFV02.03UA	10		GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EVWXV03.6U46	10		GP	Gasoline (Premium
Y	N	F	2-Wheel Drive, Front	EVWFV03.03SA	10		GP	Gasoline (Premium
Y	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
N	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
Y	N	F	2-Wheel Drive, Front	EVWFV03.5U3A	10		G	Gasoline (Regular
Y	N	F	2-Wheel Drive, Front	EVWFV03.0B5F	10		G	Gasoline (Regular
N	N	F	2-Wheel Drive, Front	EVWFV03.0B5F	10		G	Gasoline (Regular
Y	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
Y	N	F	2-Wheel Drive, Front	EVWFV03.0B5F	10		GP	Gasoline (Premium
Y	N	F	2-Wheel Drive, Front	EVWFV03.0U36	10		G	Gasoline (Regular
N	N	F	2-Wheel Drive, Front	EVWFV03.0U36	10		G	Gasoline (Regular
N	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
N	N	F	2-Wheel Drive, Front	EVWFV03.0B5F	10		GP	Gasoline (Premium
tomated Manual with paddles)			2-Wheel Drive	EVWXV01	10		GP	Gasoline (I
Y	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
N	N	F	2-Wheel Drive, Front	EVWFV03.0U5N		5	DU	Diesel, ultra low s
Y	N	F	2-Wheel Drive, Front	EVWFV03.5U3A	10		G	Gasoline (Regular
N	N	F	2-Wheel Drive, Front	EVWFV03.5U3M	10		G	Gasoline (Regular
Y	N	F	2-Wheel Drive, Front	EVWFV03.0B5F	10		G	Gasoline (Regular
N	N	F	2-Wheel Drive, Front	EVWFV03.0B5F	10		G	Gasoline (Regular
Y	N	F	2-Wheel Drive, Front	EVWFV03.0U4S		5	DU	Diesel, ultra low s
N	N	F	2-Wheel Drive, Front	EVWFV03.0U4S		5	DU	Diesel, ultra low s
Y	N	F	2-Wheel Drive, Front	EVWFV03.5U3A	10		G	Gasoline (Regular
N	N	F	2-Wheel Drive, Front	EVWFV03.5U3M	10		G	Gasoline (Regular
Y	N	F	2-Wheel Drive, Front	EVWFV03.6U41	10		GP	Gasoline (Premium
Y	N	F	2-Wheel Drive, Front	EVWFV02.03UA	10		GP	Gasoline (Premium
N	N	F	2-Wheel Drive, Front	EVWFV02.03UA	10		GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EVWXJ02.03UA	10		GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EADXT03.02UG		5	DU	Diesel, ultra low s
Y	N	A	All Wheel Drive	EVWXT03.6U76	10		GP	Gasoline (Premium
Y	N	A	All Wheel Drive	EVWXT03.0HEV	10		GP	Gasoline (Premium

Fuel Unit Fuel Unit	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			91	12		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			91	12		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			91	12		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	81	10				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	81	10				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	84	12				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	84	12				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			98	16		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			98	16		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			98	16		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			98	16		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt					94	25
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt					94	25
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			100	15		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			100	15		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			107	15		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			107	15		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			107	15		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			107	15		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			90	28		
MPG (15 ppm, max gallo	Unleaded recommended	Truck						
MPG (15 ppm, max gallo	Unleaded recommended	Truck						
MPG (15 ppm, max gallo	Unleaded recommended	Truck						
MPG (15 ppm, max gallo	Unleaded recommended	Truck						
MPG (15 ppm, max gallo	Unleaded recommended	Truck						
MPG (15 ppm, max gallo	Unleaded recommended	Truck						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	84	13				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	81	10				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt					94	25
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			90	13		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			90	13		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	84	13				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	84	13				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	81	10				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			98	16		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt					94	25
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt			100	15		
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	74	13				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt						
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	89	11				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	89	11				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	86	7				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	86	7				
MPG (15 ppm, max gallo	Unleaded recommended	Not exempt	86	7				

MPG (Unleaded Required)	miles per gallon	Not exempt	102	13					
MPG (Unleaded Required)	miles per gallon	Not exempt							
MPG (Unleaded Required)	miles per gallon	Not exempt							
MPG (Unleaded Required)	miles per gallon	Not exempt							
MPG (Unleaded Required)	miles per gallon	Not exempt							
MPG (Unleaded Recommended)	miles per gallon	Not exempt							
MPG (Unleaded Recommended)	miles per gallon	Not exempt							
MPG (Unleaded Recommended)	miles per gallon	Not exempt							
MPG (15 ppm, max gaso)	miles per gallon	Not exempt						85	15
MPG (Unleaded Required)	miles per gallon	Not exempt						85	15
MPG (15 ppm, max gaso)	miles per gallon	Not exempt						85	15
MPG (Unleaded Required)	miles per gallon	Not exempt						85	15
MPG (Unleaded Required)	miles per gallon	Not exempt						85	15
MPG (15 ppm, max gaso)	miles per gallon	Not exempt	81	7					
MPG (Unleaded Required)	miles per gallon	Not exempt	81	7					
MPG (15 ppm, max gaso)	miles per gallon	Not exempt	81	7					
MPG (Unleaded Required)	miles per gallon	Not exempt	81	7					
MPG (Unleaded Required)	miles per gallon	Not exempt	94	13					
MPG (Unleaded Required)	miles per gallon	Not exempt	94	13					
MPG (Unleaded Required)	miles per gallon	Not exempt	94	13					
MPG (Unleaded Required)	miles per gallon	Not exempt	77	11					
MPG (15 ppm, max gaso)	miles per gallon	Not exempt						94	15
MPG (15 ppm, max gaso)	miles per gallon	Not exempt						94	15
MPG (Unleaded Required)	miles per gallon	Not exempt						94	15
MPG (Unleaded Required)	miles per gallon	Not exempt			94	16			
MPG (Unleaded Required)	miles per gallon	Not exempt			94	16			
MPG (15 ppm, max gaso)	miles per gallon	Not exempt			94	16			
MPG (Unleaded Required)	miles per gallon	Not exempt			94	16			
MPG (Unleaded Required)	miles per gallon	Not exempt			94	16			
MPG (Unleaded Required)	miles per gallon	Not exempt			94	16			
MPG (15 ppm, max gaso)	miles per gallon	Not exempt			94	16			
MPG (Unleaded Required)	miles per gallon	Not exempt			94	16			
MPG (Unleaded Recommended)	miles per gallon	Not exempt			94	16			
MPG (15 ppm, max gaso)	miles per gallon	Not exempt			92	33			
MPG (15 ppm, max gaso)	miles per gallon	Not exempt			92	33			
MPG (Unleaded Required)	miles per gallon	Not exempt			92	33			
MPG (Unleaded Required)	miles per gallon	Not exempt			92	33			
MPG (Unleaded Required)	miles per gallon	Not exempt			102	16			
MPG (Unleaded Required)	miles per gallon	Not exempt			102	16			
MPG (15 ppm, max gaso)	miles per gallon	Not exempt			102	16			
MPG (15 ppm, max gaso)	miles per gallon	Not exempt			102	16			
MPG (Unleaded Required)	miles per gallon	Not exempt			102	16			
MPG (Unleaded Required)	miles per gallon	Not exempt			102	16			
MPG (Unleaded Required)	miles per gallon	Not exempt			102	16			
MPG (Unleaded Required)	miles per gallon	Truck							
MPG (Unleaded Required)	miles per gallon	Truck							
MPG (Unleaded Required)	miles per gallon	Truck							
MPG (15 ppm, max gaso)	miles per gallon	Truck							
MPG (Unleaded Required)	miles per gallon	Truck							
MPG (Unleaded Required)	miles per gallon	Truck							

Annual Fu	EPA Calcu	Comment	City2 FE (U	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
2100	2100	eng code correction							
2350	2350	corrected c	14	20	16	unding correction FFV combined unadj un			17.8408 eng code
2150	2150	unrnd unadj combined CO2 value corrected, eng code corrected							
2100	2100	eng code correction							
2350	2350	rounding c	14	20	16	unrnd unadj; eng code correction			17.8408
2350	2350	rounding c	14	20	16	, eng code correction, typo E85 combined			17.8408 usandth.
2150	2150	unadj unrnd combined CO2 corrected, eng code correction							
2000	2000	annaual fuel cost correction, eng code correction							
2450	2450	eng code correction							
2550	2550	adj city and highway CO2 corrected							
2000	2000	engine code correction typo							
2000	2000	release date change, eng code correction							
2700	2700								
2700	2700	added configuration data							
2700	2700	release date change							
2050	2050	corrected unadjusted un-rounded combined fuel economy typo, correct fuel savings over 5 y							
2700	2700	added configuration data							
2950	2950	release date change							
3500	3500								
2450	2450	annual fuel	14	18	15	corrected			17.1
2450	2450	eng code c	14	19	16	rected			17.4
2700	2700	unrnd adj CO2 correction							
2150	2150	Engine code corrected							
2150	2150								
2600	2600	projected sales corrected, release date change, annual fuel cost and 5 yr spending corrected							
3100	3100	annual and 5 year fuel costs corrected, CO2 hwy rounded correction, release date change							
3300	3300								
4000	4000	corrected unrounded unadjusted combined CO2 value							
3500	3500								
4000	4000	CORRECTED THE GAS GUZZLER TO ADJ COMBINED VALUE, corrected CO2 values							
3300	3300								
4000	4000	corrected combined unadjusted unrounded CO2 value							
3500	3500								
4000	4000	corrected CO2 unadjusted unrounded values calculation error							
3100	3100	annual fuel cost and 5 yr cost corrected							
3100	3100	release date change, 5 yr fuel spending corrected; annual fuel cost corrected							
2950	2950	release date change							
2700	2700	correct 5yr fuel spending value							
2800	2800	unadj CO2 values corrected							
2700	2700	corrected 5yr spend value							
2800	2800	CO2 unadj unrnd correction							
2700	2700	CO2 adj unround correction							
2800	2800	release date change							
2800	2800	release date change							
2950	2950	release date change							
2150	2150								
2150	2150								
3100	3100	annual and 5 year fuel costs corrections							
3750	3750		9	15	11				10.5
3750	3750	correct ann	9	15	11	5yr spend correction			10.5
3300	3300								
3750	3750	corrected a	9	15	11	st; five year spend corrected			10.5

3750	3750	corrected annual fuel cost; corrected five year spending	9	11	10.5
5600	5600	annual fuel cost and 5 yr cost corrected			
4350	4350	fuel rating correction			
4350	4350				
4700	4700				
3500	3500				
3750	3750	fuel economy/ GHG rating corrected			
3500	3500	fuel costs corrected to reflect 2014 unit prices			
4000	4000				
1800	1800				
2150	2150				
1800	1800	unadj unrnd highway typo correction			
2100	2100	CO2 rounding error correction			
2100	2100				
1850	1850				
2250	2250				
1800	1800	typo correction			
2300	2300				
2250	2250				
2250	2250				
2800	2800				
2250	2250				
1700	1700	combined unadj CO2 corrected, typo transposing errors			
1700	1700				
2000	2000	FE&GHG rating corrected, annual and 5 yr savings corrected, CO2 rounding correction			
1800	1800				
1750	1750	fuel corrected			
1700	1700	combined unadj CO2 corrected, typo transposing errors			
2100	2100	CO2 rounding correction			
2100	2100				
1900	1900				
1700	1700				
2150	2150				
1150	1250	release date change			
1750	1750				
1700	1700				
2000	2000	FE & GHG ratings corrected, annual and 5 yr costs corrected, CO2 rounding correction			
2000	2000	CO2 rounding corrections			
1900	1900	CO2 rounding correction			
1900	1900	CO2 rounding corrrections			
1700	1700	CO2 rounding correction			
1650	1650	CO2 unadj, unrnd typo correction			
2100	2100				
2000	2000				
2450	2450				
2450	2450				
2700	2700				
2450	2450	corrected combined			
2500	2500				
2950	2950	unadj combined CO2 value rounding correction			
2700	2700				

Hwy2 Unit	Comb2	City2	Hwy2	Comb2	Range2	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit
28.7294	21.5093	14.1049	20.5013	16.4087	270	E	Ethanol (E85)	MPG	miles per gallon
28.7294	21.5093	14.1049	20.5013	16.4087	270	E	Ethanol (E85)	MPG	miles per gallon
28.7294	21.5093	14.1049	20.5013	16.4087	270	E	Ethanol (E85)	MPG	miles per gallon
25.6	20.1038	13.5432	18.3117	15.3409	254	E	Ethanol (E85)	MPG	miles per gallon
27.1	20.7407	13.7947	19.3602	15.8444	317	E	Ethanol (E85)	MPG	miles per gallon
20.8	13.5107	8.8115	15.1054	10.8449	262	E	Ethanol (E85)	MPG	miles per gallon
20.5	13.4531	8.6127	14.7094	10.5874	262	E	Ethanol (E85)	MPG	miles per gallon
20.5	13.4531	8.6127	14.7094	10.5874	262	E	Ethanol (E85)	MPG	miles per gallon

20.5	13.4531	8.6127	14.7094	10.5874	262	E	Ethanol (E85)	MPG	miles per gallon

Alternative Fuel								
Fuel2 Alt	City CO2 I	Hwy CO2	Comb CO	Fuel2 EPA	Descripto	Intake Val	Exhaust V	Carline Cl	Carline Cl
					SIDI;	2	24		Compact Cars
2900	439	302	377	2900	SIDI; FFV;	2	24		Compact Cars
					SIDI;	2	24		Compact Cars
					SIDI;	2	23		Subcompact Cars
2900	439	302	377	2900	SIDI; FFV;	2	23		Subcompact Cars
2900	439	302	377	2900	SIDI; FFV;	2	23		Subcompact Cars
					SIDI;	2	23		Subcompact Cars
					SIDI;	2	25		Midsize Cars
					SIDI;	2	25		Midsize Cars
					SIDI;	2	25		Midsize Cars
						2	25		Midsize Cars
						2	25		Midsize Cars
					SIDI;	2	25		Midsize Cars
					SIDI;	2	25		Midsize Cars
					SIDI;	2	25		Midsize Cars
						2	26		Large Cars
					SIDI;	2	26		Large Cars
					SIDI;	2	26		Large Cars
					SIDI;	2	26		Large Cars
3100	458	338	404	3100	SIDI; FFV;	2	27		Small Station Wag
2900	450	320	392	2900	SIDI; FFV;	2	231		Small SUV 4WD
					SIDI;	2	231		Small SUV 4WD
						2	231		Small SUV 4WD
					SIDI;	2	231		Small SUV 4WD
						2	233		Standard SUV 4W
					SIDI;	2	233		Standard SUV 4W
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	21		Two Seaters
					SIDI;	2	23		Subcompact Cars
					SIDI;	2	23		Subcompact Cars
					SIDI;	2	25		Midsize Cars
					SIDI;	2	24		Compact Cars
					SIDI;	2	24		Compact Cars
					SIDI;	2	23		Subcompact Cars
					SIDI;	2	23		Subcompact Cars
					SIDI;	2	23		Subcompact Cars
					SIDI;	2	25		Midsize Cars
					SIDI;	2	25		Midsize Cars
					SIDI;	2	25		Midsize Cars
					SIDI;	2	23		Subcompact Cars
					SIDI;	2	21		Two Seaters
					SIDI;	2	24		Compact Cars
4250	711	410	576	4250	FFV;	2	24		Compact Cars
4250	726	421	589	4250	FFV;	2	23		Subcompact Cars
					SIDI;	2	23		Subcompact Cars
4250	726	421	589	4250	FFV;	2	23		Subcompact Cars

4250	726	421	589	4250	FFV;	2	25	Midsize Cars
						2	21	Two Seaters
						2	21	Two Seate
						2	21	Two Seate
						2	21	Two Seaters
					SIDI;	2	21	Two Seaters
					SIDI;	2	21	Two Seate
					SIDI;	2	21	Two Seate
					SIDI;	2	21	Two Seate
						2	24	Compact Cars
					SIDI;	2	24	Compact Cars
						2	24	Compact Cars
						2	24	Compact Cars
						2	24	Compact Cars
						2	23	Subcompact Cars
					SIDI;	2	23	Subcompact Cars
						2	23	Subcompact Cars
						2	23	Subcompact Cars
					SIDI;	2	24	Compact Cars
					SIDI;	2	24	Compact Cars
					SIDI;	2	24	Compact Cars
					SIDI;	2	23	Subcompact Cars
						2	24	Compact Cars
						2	24	Compact Cars
						2	24	Compact Cars
					SIDI;	2	24	Compact Cars
					SIDI;	2	24	Compact Cars
						2	24	Compact Cars
					SIDI;	2	24	Compact Cars
						1	14	Compact Cars
						1	14	Compact Cars
						2	24	Compact Cars
					SIDI;	2	24	Compact Cars
					SIDI;	2	24	Compact C
						2	27	Small Station Wag
						2	27	Small Station Wag
						2	27	Small Station Wag
						2	27	Small Station Wag
					SIDI;	2	25	Midsize Cars
					SIDI;	2	25	Midsize Cars
						2	25	Midsize Cars
						2	25	Midsize Cars
						2	25	Midsize Cars
						2	25	Midsize Cars
					SIDI;	2	25	Midsize Cars
					SIDI;	2	230	Small SUV 2WD
					SIDI;	2	230	Small SUV 2WD
					SIDI;	2	231	Small SUV 4WD
						2	233	Standard SUV 4W
					SIDI;	2	233	Standard SUV 4W
					SIDI;	2	233	Standard SUV 4W

SC Car/Truck	Calc Appr	Sales Release D	EPA FE Label	Dataset ID	Unique La	Label Rec	Relabel	Relabel D
car	Derived 5-cycle label	6/7/2013	13993	[redacted]	N	N		
car	Derived 5-cycle label	6/7/2013	13987		N	N		
car	Vehicle Specific 5-cycle la	6/7/2013	13995		N	N		
car	Derived 5-cycle label	6/7/2013	13994		N	N		
car	Derived 5-cycle label	6/7/2013	13989		N	N		
car	Derived 5-cycle label	6/7/2013	14008		N	N		
car	Vehicle Specific 5-cycle la	6/7/2013	13996		N	N		
car	Vehicle Specific 5-cycle la	6/7/2013	13992		N	N		
car	Vehicle Specific 5-cycle la	6/7/2013	13997		N	N		
car	Derived 5-cycle label	6/14/2013	13972		N	N		
car	Vehicle Specific 5-cycle la	6/21/2013	14199		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	14200		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13857		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13858		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	14000		N	N		
car	Vehicle Specific 5-cycle la	2/4/2013	13281		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13859		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13999		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13900		N	N		
cars	Derived 5-cycle label	6/7/2013	13986		N	N		
	Derived 5-cycle label	6/7/2013	13991		N	N		
	Vehicle Specific 5-cycle la	6/14/2013	13974		N	N		
	Vehicle Specific 5-cycle la	6/21/2013	14198		N	N		
	Vehicle Specific 5-cycle la	6/14/2013	13848		N	N		
D	Vehicle Specific 5-cycle la	6/14/2013	14009		N	N		
D	Derived 5-cycle label	6/14/2013	14007		N	N		
car	Vehicle Specific 5-cycle la	2/8/2013	12975		N	N		
car	Vehicle Specific 5-cycle la	2/8/2013	13038		N	N		
car	Vehicle Specific 5-cycle la	2/8/2013	12971		N	N		
car	Vehicle Specific 5-cycle la	2/8/2013	13036		N	N		
car	Vehicle Specific 5-cycle la	2/8/2013	12974		N	N		
car	Vehicle Specific 5-cycle la	2/8/2013	13037		N	N		
car	Vehicle Specific 5-cycle la	2/8/2013	12970		N	N		
car	Vehicle Specific 5-cycle la	2/8/2013	13035		N	N		
car	Vehicle Specific 5-cycle la	6/13/2013	13728		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	14119		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	14004		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13884		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13976		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13883		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13977		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	13975		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	14003		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	14002		N	N		
car	Vehicle Specific 5-cycle la	6/14/2013	14001		N	N		
car	Vehicle Specific 5-cycle la	5/31/2013	13808		N	N		
car	Vehicle Specific 5-cycle la	5/31/2013	13809		N	N		
car	Vehicle Specific 5-cycle la	7/1/2013	13732		N	N		
car	Vehicle Specific 5-cycle la	3/20/2013	13231		N	N		
car	Vehicle Specific 5-cycle la	3/18/2013	13376		N	N		
car	Vehicle Specific 5-cycle la	6/17/2013	13614		N	N		
car	Vehicle Specific 5-cycle la	3/18/2013	13375		N	N		

car	Vehicle Specific 5-cycle label	3/18/2013	13374	N	N
car	Vehicle Specific 5-cycle label	5/15/2013	13724	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	14011	N	N
car	Vehicle Specific 5-cycle label	6/3/2013	13877	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	13822	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13706	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13827	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13710	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13709	N	N
car	Derived 5-cycle label	6/14/2013	13832	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14124	N	N
car	Derived 5-cycle label	6/14/2013	13979	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14213	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14197	N	N
car	Derived 5-cycle label	6/14/2013	13833	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14125	N	N
car	Derived 5-cycle label	6/14/2013	13980	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14195	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14064	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14065	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	13700	N	N
car	Vehicle Specific 5-cycle label	6/14/2013	14127	N	N
car	Derived 5-cycle label	6/17/2013	13985	N	N
car	Derived 5-cycle label	6/17/2013	13847	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14234	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14136	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14135	N	N
car	Derived 5-cycle label	6/17/2013	13984	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14217	N	N
car	Vehicle Specific 5-cycle label	7/11/2013	14281	N	N
car	Vehicle Specific 5-cycle label	7/11/2013	14282	N	N
car	Derived 5-cycle label	6/17/2013	13826	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14139	N	N
car	Derived Vehicle Specific	5/2013	14444	N	N
car	Derived 5-cycle label	6/24/2013	13819	N	N
car	Derived 5-cycle label	6/17/2013	13825	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14233	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14218	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14219	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14220	N	N
car	Vehicle Specific 5-cycle label	6/28/2013	14225	N	N
car	Vehicle Specific 5-cycle label	6/28/2013	14226	N	N
car	Vehicle Specific 5-cycle label	6/25/2013	14188	N	N
car	Vehicle Specific 5-cycle label	6/25/2013	14189	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	13699	N	N
	Derived 5-cycle label	6/17/2013	14069	N	N
	Vehicle Specific 5-cycle label	6/17/2013	14070	N	N
	Derived 5-cycle label	6/17/2013	14122	N	N
D	Vehicle Specific 5-cycle label	5/13/2013	13666	N	N
D	Derived 5-cycle label	6/14/2013	14120	N	N
D	Derived 5-cycle label	5/28/2013	13781	N	N

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N		N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CPMB	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N		N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N		N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CPMB	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CPMB	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N		N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N		N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N		N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N		N		N	N			
N	N		N		N	N			
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CEUA. Stat	Deactivation	Equipped	Three	Valve	Stay	Multi	Fuel
N	N		N		N	N			
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CEUA. Stat	Deactivation	Equipped	Three	Valve	Stay	Multi	Fuel
N	N		N		Y	Intake and Exhaust cam timing is electronically con			
N	N	Engine Code: CPMB	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CPMB	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N		N		N	N			
N	N		N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N		N		N	N			
N	N		N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N		N		Y	CONTINUOUS INTAKE AND EXHAUST CAM ADJUST			
N	N		N		Y	CONTINUOUS INTAKE AND EXHAUST CAM ADJUST			
N	N	ENGINE CODE CEH (GALLARDO C	OUPE AND SPYDER)		Y	INLET AND	OUTLET CONTINUOUSLY VARIABLE / M		
N	N	ENGINE CODE CEH (GALLARDO C	OUPE AND SPYDER)		Y	INLET AND	OUTLET CONTINUOUSLY VARIABLE / M		
N	N		N		Y	CONTINUOUS INTAKE AND EXHAUST CAM ADJUST			
N	N		N		Y	CONTINUOUS INTAKE AND EXHAUST CAM ADJUST			
N	N	ENGINE CODE CEH (GALLARDO C	OUPE AND SPYDER)		Y	INLET AND	OUTLET CONTINUOUSLY VARIABLE / M		
N	N	ENGINE CODE CEH (GALLARDO C	OUPE AND SPYDER)		Y	INLET AND	OUTLET CONTINUOUSLY VARIABLE / M		
N	N		N		Y	Continuously intake and exhaust cam adjustment			
N	N		N		Y	Continuously intake and exhaust cam adjustment			
N	N	Engine Code: CEUA. Stat	Deactivation	Equipped	Three	Valve	Stay	Multi	Fuel
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CTUA	N		Y	CONTINUOUS VARIABLE VALVE TIMING			
N	N	Engine Code: CEUA. Stat	Deactivation	Equipped	Three	Valve	Stay	Multi	Fuel
N	N	Engine Code: CEUA. Stat	Deactivation	Equipped	Three	Valve	Stay	Multi	Fuel
N	N	Engine Code: CEUA. Stat	Deactivation	Equipped	Three	Valve	Stay	Multi	Fuel
N	N	ENGINE CODE CETA ONLY.			Y	CONTINUOUSLY VARIABLE VALVE TIMING			
N	N	ENGINE CODE CETA ONLY.			Y	CONTINUOUSLY VARIABLE VALVE TIMING			
N	N	Engine Code: CEUA. Stat	Deactivation	Equipped	Three	Valve	Stay	Multi	Fuel
N	N		N		Y	INLET AND	OUTLET CONTINUOUSLY VARIABLE / M		
N	N		N		Y	INLET AND	OUTLET CONTINUOUSLY VARIABLE / M		
N	N	Engine Code: CEUA. Stat	Deactivation	Equipped	Three	Valve	Stay	Multi	Fuel
N	N		N		Y	INLET AND	OUTLET CONTINUOUSLY VARIABLE / M		

N	N	N	Y	INLET AND O	UTLET CONTINUOUSLY VARIABLE / M	
N	N	CHARGE AIR COOLER (AIR / LIQUID) - - SFI/AIR/ETC/2DAC/4VT-CWT/2WG/3HO2S(2)		INLET AND O	UTLET CONTINUOUSLY VARIABLE / M	
N	N	Engine Co Y	ELECTRO Y	HYDRAUL N		
N	N	Engine Co Y	ELECTRO Y	HYDRAUL N		
N	N	Engine Code L539C (Audi Canada Only) - - SFI/AIR/ETC/2DAC/4VT-CWT/2WG/3HO2S(2)		ELECTRONICALLY CONTROLLED HYDRAULIC VVT SYSTEM ON INTAKE/EXHAUST VALVE C		
N	N	ENGINE CODE CEH (GALLARDO COUPE AND SPYDER)	Y	INLET AND O	UTLET CONTINUOUSLY VARIABLE / M	
N	N	ENGINE CN	Y	INLET AN	N	
N	N	ENGINE CN	Y	INLET AN	N	
N	N	ENGINE CN	Y	INLET AN	N	
N	N	N	N	N		
N	N	N	Y	MECANICAL	HYDRAULIC VVT SYSTEM ON INTAKE C	
N	N	N	N	N		
N	N	N	Y	INLET CONT	NONOUSLY VARIABLE / MECHANICAL H	
N	N	N	Y	INLET CONT	NONOUSLY VARIABLE / MECHANICAL H	
N	N	N	N	N		
N	N	N	Y	MECANICAL	HYDRAULIC VVT SYSTEM ON INTAKE C	
N	N	N	N	N		
N	N	N	Y	INLET CONT	NONOUSLY VARIABLE / MECHANICAL H	
N	N	N	Y	position of	Intake/exhaust camshaft electronically	
N	N	N	Y	position of	Intake/exhaust camshaft electronically	
N	N	N	Y	position of	Intake/exhaust camshaft electronically	
N	N	N	Y	CONTINUOU	S VARIABLE VALVE TIMING	
N	N	N	N	N		
N	N	N	N	N		
N	N	N	Y	INLET CONT	NONOUSLY VARIABLE / MECHANICAL H	
N	N	N	Y	MECANICAL	HYDRAULIC VVT SYSTEM ON INTAKE C	
N	N	N	Y	MECANICAL	HYDRAULIC VVT SYSTEM ON INTAKE C	
N	N	N	N	N		
N	N	N	Y	MECANICAL	HYDRAULIC VVT SYSTEM ON INTAKE C	
N	N	N	N	N		
N	N	N	N	N		
N	N	N	N	N		
N	N	N	Y	MECANICAL	HYDRAULIC VVT SYSTEM ON INTAKE C	
N	Patch for Highway label	N	Y	MECANIC	N	Battery(s)
N	N	N	N	N		
N	N	N	N	N		
N	N	N	Y	INLET CONT	NONOUSLY VARIABLE / MECHANICAL H	
N	N	N	Y	INLET CONT	NONOUSLY VARIABLE / MECHANICAL H	
N	N	N	Y	MECANICAL	HYDRAULIC VVT SYSTEM ON INTAKE C	
N	N	N	Y	MECANICAL	HYDRAULIC VVT SYSTEM ON INTAKE C	
N	N	SCR Equipped	N	N		
N	N	SCR Equipped	N	N		
N	N	N	Y	INLET CONT	NONOUSLY VARIABLE / MECHANICAL H	
N	N	N	Y	INLET CONT	NONOUSLY VARIABLE / MECHANICAL H	
N	N	N	Y	Electronic c	ontrol / Hydraulic adjustment	
N	N	N	Y	position of	Intake/exhaust camshaft electronically	
N	N	N	Y	position of	Intake/exhaust camshaft electronically	
N	N	N	Y	position of	Intake/exhaust camshaft electronically	
N	N	N	N	N		
N	N	N	Y	INTAKE / EX	AUST CAM TIMING ADJUSTED HYDRAU	
N	N	V6 CYLINDER 2 BANK SYSTEM Eng Code CGF	Y	MECANICAL	HYDRAULIC VVT SYSTEM ON INTAKE C	Battery(s)

evice Desc	Energy St	# Batterie	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
[illegible]										
[illegible]										
tolled and hydraulically adjusted.										
		1	Lithium Ion		266	5.00	37.0	On-Board		
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										
[illegible]										
[illegible]										
[illegible]										
[illegible]										
[illegible]										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										
[illegible]										
ECHANICAL-HYDRAULIC										

ECHANICAL-HYDRAULIC
ECHANICAL-HYDRAULIC
nigmatic in the Bugatti GT.
VALVED CONTROL UOUSLY VVT
VALVED CONTROL UOUSLY VVT
VALVED CONTROL
UOUSLY VVT
ECHANICAL-HYDRAULIC
E / MECHANICAL-HYDRAULIC
E / MECHANICAL-HYDRAULIC
E / MECHANICAL-HYDRAULIC

AMS

YDRAULIC
YDRAULIC

AMS

YDRAULIC
controlled and hydraulically adjusted
controlled and hydraulically adjusted
controlled and hydraulically adjusted

YDRAULIC
AMS
AMS

AMS

AMS
AKE AND OUTLET CAMS
Lithium Ion 220 5.00 27.0 On-Board

YDRAULIC
YDRAULIC
AMS
AMS

YDRAULIC
YDRAULIC

controlled and hydraulically adjusted
controlled and hydraulically adjusted
controlled and hydraulically adjusted

LICALLY AND CONTROLLED ELECTRONICALLY
AMS 1 NiMH 288 6.00 21.5 On-Board

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C	# Drive M	Motor Ger

Electrical F	BRAKE PE	Front Whe	Y	1 Other
Other	BRAKE PEDAL TRIGGERED REGENERATIVE HYDRAULIC MECHANICAL BRAKE SYSTEM	Both	N	1 Other

666 Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				CRDI	Common Rail Direct Diesel Injection			N	5W30 VW 50700
				CRDI	Common Rail Direct Diesel Injection			N	5W30 VW 50700
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
h				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
				CRDI	Common Rail Direct Diesel Injection			N	5W30 VW 50700
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
h				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				CRDI	Common Rail Direct Diesel Injection			N	5W30 VW 50700
		40		GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				CRDI	Common Rail Direct Diesel Injection			N	5W30 VW 50700
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W/30, VW50400
				GDI	Spark Ignition Direct Injection			N	5W/30, VW50400
				GDI	Spark Ignition Direct Injection			N	10W60 VW 50101
				GDI	Spark Ignition Direct Injection			N	10W60 VW 50101
				GDI	Spark Ignition Direct Injection			N	5W/30, VW50400
				GDI	Spark Ignition Direct Injection			N	5W/30, VW50400
				GDI	Spark Ignition Direct Injection			N	10W60 VW 50101
				GDI	Spark Ignition Direct Injection			N	10W60 VW 50101
				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
h				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
				GDI	Spark Ignition Direct Injection			N	5W40 VW 50200
h				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
h				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
h				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
				GDI	Spark Ignition Direct Injection			N	5W40
				GDI	Spark Ignition Direct Injection			N	5W40
h				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
				MFI	Multipoint/Sequential fuel injection			N	5W30 VW 504 00
				MFI	Multipoint/Sequential fuel injection			N	5W30 VW 504 00
h				GDI	Spark Ignition Direct Injection			N	5W30 VW 50400 /
				MFI	Multipoint/Sequential fuel injection			N	5W30 VW 504 00

		MFI	Multipoint/sequential fuel injection	N		5W30 VW 504 00
		MFI	Multipoint/sequential fuel injection	N		10W60 VW 50101
		MFI	Multipoint/s	N		5W30 VW
		MFI	Multipoint/s	N		5W30 VW
		MFI	Multipoint/sequential fuel injection	N		5W30 VW 50400 /
		GDI	Spark Ignition Direct Injection	N		10W60 VW 50101
		GDI	Spark Ignit	N		10W60 VW
		GDI	Spark Ignit	N		10W60 VW
		GDI	Spark Ignit	N		10W60 VW
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		MFI	Multipoint/sequential fuel injection	N		10W40 / VW5020
		MFI	Multipoint/sequential fuel injection	N		10W40 / VW5020
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		MFI	Multipoint/sequential fuel injection	N		10W40 / VW5020
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		GDI	Spark Ignition Direct Injection	N		5W-40 VW50200
		GDI	Spark Ignition Direct Injection	N		5W40 / VW50200
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		MFI	Multipoint/sequential fuel injection	N		10W40 / VW5020
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		MFI	Multipoint/sequential fuel injection	N		5W40 VW 50200
		MFI	Multipoint/sequential fuel injection	N		5W40 VW 50200
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
3 PHASE I	28	GDI	Spark Ignit	N	N	5W40 VW
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		CRDI	Common Rail Direct Diesel Injection	N		5W40
		MFI	Multipoint/sequential fuel injection	N		10W40 / VW5020
		MFI	Multipoint/sequential fuel injection	N		10W40 / VW5020
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		CRDI	Common Rail Direct Diesel Injection	N		5W40 VW 50501
		CRDI	Common Rail Direct Diesel Injection	N		5W40 VW 50501
		MFI	Multipoint/sequential fuel injection	N		10W40 / VW5020
		MFI	Multipoint/sequential fuel injection	N		10W40 / VW5020
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
		CRDI	Common Rail Direct Diesel Injection	N		5W30 VW 50700
		GDI	Spark Ignition Direct Injection	N		5W40 VW 50200
3 PHASE CURRENT	24	PERM. MAGNET	GDI	Spark Ignition Direct Injection	N	5W40 VW 50200

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
N	No	Auto(AV-S8)	Auto(AV-S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Manual(M6)	Manual(M6)						
N	No	Auto(AV-S8)	Auto(AV-S8)						
N	No	Auto(S8)	Auto(S8)	A5 Cabriolet quattro FFV					
N	No	Auto(S8)	Auto(S8)						
N	No	Manual(M6)	Manual(M6)						
N	No	Auto(AV-S8)	Auto(AV-S8)	Audi A6 CVT					
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)	Audi A6 quattro					
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y50700	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y50700	Yes	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)	Audi Q7					
N	No	Auto(AM-S7)	Auto(AM-S7)						
N	No	Manual(M6)	Manual(M6)						
N50500	No	Auto(AM-S7)	Auto(AM-S7)						
N50500	No	Manual(M6)	Manual(M6)						
N	No	Auto(AM-S7)	Auto(AM-S7)						
N	No	Manual(M6)	Manual(M6)						
N50500	No	Auto(AM-S7)	Auto(AM-S7)						
N50500	No	Manual(M6)	Manual(M6)						
N50700	No	Auto(AM-S7)	Auto(AM-S7)						
N50700	No	Auto(AM-S7)	Auto(AM-S7)						
N50700	No	Auto(S8)	Auto(S8)						
N	No	Auto(AM-S7)	Auto(AM-S7)						
N	No	Manual(M6)	Manual(M6)						
N	No	Auto(AM-S7)	Auto(AM-S7)						
N	No	Manual(M6)	Manual(M6)						
N	No	Auto(AM-S7)	Auto(AM-S7)						
N50700	No	Auto(AM-S7)	Auto(AM-S7)						
N50700	No	Auto(AM-S7)	Auto(AM-S7)						
N50700	No	Auto(S8)	Auto(S8)						
N	No	Auto(AM-S6)	Auto(AM-S6)	TT Coupe quattro					
N	No	Auto(AM-S6)	Auto(AM-S6)	TT Coupe quattro					
N50700	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N50700	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						

N	No	Auto(S8)	Auto(S8)	
N	50500	No	Auto(AM-S7)	Auto(AM-S7)
Y	50700	Yes	Auto(AM-S	Auto(AM-S
N	50700	No	Auto(AM-S	Auto(AM-S VENENO
Y	50700	Yes	Auto(AM-S7)	Auto(AM-S7)
N	50500	No	Auto(AM-S6)	Auto(AM-S6)
N	50500	No	Manual(M6	Manual(M6 Gallardo C
N	50500	No	Auto(AM-S	Auto(AM-S
N	50500	No	Manual(M6	Manual(M6 Gallardo S
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Manual(M6)	Manual(M6)	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M5)	Manual(M5)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Manual(M6)	Manual(M6)	
N	No	Auto(S6)	Auto(S6)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Manual(M6)	Manual(M6)	C6 M6
N	No	Auto(S6)	Auto(S6)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Manual(M6)	Manual(M6)	Jetta SportWagen M6
N	No	Auto(S6)	Auto(S6)	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M5)	Manual(M5)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Auto(S6)	Auto(S6)	Jetta Base
N	No	Manual(M5)	Manual(M5)	
N	No	Manual(M6)	Manual(M6)	Jetta SportWagen M6
N	No	Manual(M6)	Manual(M6)	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Manual(M6)	Manual(M6)	Jetta SportWagen M6
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M5)	Manual(M5)	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M5)	Manual(M5)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Manual(M6)	Manual(M6)	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M5)	Manual(M5)	
N	No	Auto(AM-S6)	Auto(AM-S6)	
N	No	Auto(S6)	Auto(S6)	Tiguan front
N	No	Manual(M6)	Manual(M6)	
N	No	Auto(S6)	Auto(S6)	
N	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	Touareg Hybrid

EPA Calculated Gas G	[redacted]	[redacted] (GHG Ratin	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
35.2	[redacted]	7	7	EADXV02.03UB	5	
30.9	[redacted]	6	6	EADXJ02.0FUB	5	
33.1	[redacted]	7	7	EADXV02.03UB	5	
35.2	[redacted]	7	7	EADXV02.03UB	5	
30.9	[redacted]	6	6	EADXJ02.0FUB	5	
30.9	[redacted]	6	6	EADXJ02.0FUB	5	
33.1	[redacted]	7	7	EADXV02.03UB	5	
36.9	[redacted]	7	7	EADXV02.03UB	5	
30.0	[redacted]	6	6	EADXV02.03UB	5	
28.1	[redacted]	5	5	EADXJ03.03UF	5	
37.7	[redacted]	7	7	EADXJ03.04UG	5	
37.7	[redacted]	7	7	EADXJ03.04UG	5	
27.2	[redacted]	5	5	EADXJ03.03UF	5	
27.2	[redacted]	5	5	EADXJ03.03UF	5	
27.1	[redacted]	5	5	EADXV04.03UJ	5	
36.9	[redacted]	7	6	EADXJ03.04UG	5	
27.2	[redacted]	5	5	EADXJ03.03UF	5	
24.4	[redacted]	4	4	EADXV04.03UJ	5	
19.3	[redacted]	3	3	EVWXV06.3UA8	5	
29.5	[redacted]	6	6	EADXJ02.0FUB	5	
29.6	[redacted]	6	6	EADXJ02.0FUB	5	
27.2	[redacted]	5	5	EADXJ03.03UF	5	
34.3	[redacted]	7	6	EADXJ03.04UG	5	
34.0	[redacted]	7	7	EADXT02.0HUB	5	
28.1	[redacted]	5	4	EADXT03.03UG	5	
23.1	[redacted]	4	4	EADXT03.0TLF	5	
20.8	[redacted]	3	3	EADXV04.2375	5	
17.2	[redacted]	2	2	EADXV04.2375	5	
19.6	[redacted]	3	3	EADXV05.2LR8	5	
17.0	[redacted]	2	2	EADXV05.2LR8	5	
20.8	[redacted]	3	3	EADXV04.2375	5	
17.2	[redacted]	2	2	EADXV04.2375	5	
19.6	[redacted]	3	3	EADXV05.2LR8	5	
16.8	[redacted]	2	2	EADXV05.2LR8	5	
23.0	[redacted]	4	4	EADXV04.23UL	5	
22.6	[redacted]	4	4	EADXV04.23UL	5	
24.1	[redacted]	4	4	EADXV04.03UJ	5	
26.9	[redacted]	5	5	EADXJ03.03UF	5	
23.5	[redacted]	5	5	EADXJ03.03UF	5	
26.9	[redacted]	5	5	EADXJ03.03UF	5	
23.5	[redacted]	5	5	EADXJ03.03UF	5	
26.4	[redacted]	5	5	EADXJ03.03UF	5	
25.5	[redacted]	5	5	EADXV04.03UJ	5	
25.5	[redacted]	5	5	EADXV04.03UJ	5	
23.6	[redacted]	4	4	EADXV04.03UJ	5	
33.2	[redacted]	7	7	EADXV02.03UA	5	
33.2	[redacted]	7	7	EADXV02.03UA	5	
23.6	[redacted]	4	4	EADXV04.03UJ	5	
19.5	[redacted]	2	2	EBEXV06.04UC	5	
18.3	[redacted]	2	2	EBEXV06.04UC	5	
21.8	[redacted]	3	3	EADXV04.03UJ	5	
18.3	[redacted]	2	2	EBEXV06.04UC	5	

18.3	[redacted]	2	2 EBEXV06.04UC	5
12.6		1	1 EBGTV08.0V16	5
16.4		1	1 ENLXV06.	5
15.8		1	1 ENLXV06.	5
14.5		1	1 ENLXV06.5L83	5
19.4		3	3 EADXV05.2LR8	5
17.4		2	2 EADXV05.	5
19.3		3	3 EADXV05.	5
16.1		2	2 EADXV05.	5
43.7		8	7 EVWXV02.0U5N	5
33.9		7	7 EVWXV02.0B5F	5
43.4		8	7 EVWXV02.0U5N	5
31.6		6	6 EVWXV02.5A59	7
32.0		6	6 EVWXV02.5M59	7
42.3		8	7 EVWXV02.0U5N	5
33.2		6	6 EVWXV02.0B5F	5
43.4		8	7 EVWXV02.0U5N	5
30.3		6	6 EVWXV02.5A59	7
32.3		6	6 EVWXJ02.03UA	5
31.6		6	6 EVWXJ02.03UA	5
24.8		5	5 EVWXV03.6U46	5
32.4		6	6 EVWXV02.03SA	5
46.2		8	8 EVWXV02.0U5N	5
46.0		8	8 EVWXV02.0U5N	5
32.2		7	7 EVWXV02.5A59	7
37.5		7	7 EVWXV02.0B5F	5
38.4		8	8 EVWXV02.0B5F	5
46.2		8	8 EVWXV02.0U5N	5
34.8		7	7 EVWXV02.0B5F	5
32.9		6	6 EVWXV02.0U36	5
34.7		7	7 EVWXV02.0U36	5
46.0		8	8 EVWXV02.0U5N	5
34.0		7	7 EVWXV02.0B5F	5
60.8		10	10 EVWXV01	7
44.2		8	7 EVWXV02.0U5N	5
46.0		8	8 EVWXV02.0U5N	5
32.2		7	7 EVWXV02.5A59	7
32.1		7	7 EVWXV02.5M59	7
36.1		7	7 EVWXV02.0B5F	5
36.3		7	7 EVWXV02.0B5F	5
44.6		8	8 EVWXV02.0U4S	5
46.4		9	8 EVWXV02.0U4S	5
31.9		6	6 EVWXV02.5A59	7
31.7		7	7 EVWXV02.5M59	7
28.5		6	6 EVWXV03.6U41	5
29.7		6	6 EVWXJ02.03UA	5
26.4		5	5 EVWXJ02.03UA	5
29.5		6	6 EVWXJ02.03UA	5
29.6		6	5 EADXT03.02UG	5
25.0		4	4 EVWXT03.6U76	5
28.2		5	5 EVWXT03.0HEV	5

#3 Smog R #3 Mfr Sm #3 EPA Sm SmartWay #4 Smog R #4 Mfr Sm

EVWXV02.03PA 7

EVWXV02.5U3A 5
EVWXV02.5U3M 5

EVWXV02.03PA 7

EVWXV02.5U3A 5
EVWXV02.03PA 7
EVWXV02.03PA 7

EVWXV02.5U3A 5
EVWXV02.03PA 7
EVWXV02.03PA 7

EVWXV02.03PA 7

EVWXV02.03PA 7

EVWXV02.5U3A 5
EVWXV02.5U3M 5
EVWXV02.03PA 7
EVWXV02.03PA 7

EVWXV02.5U3A 5
EVWXV02.5U3M 5

[illegible]	You Save $	You Spend $	City CO2 R	Hwy CO2 R	Comb CO2	CO2- Volu	CO2- Volu	CO2-Vol In
	1000		376	281	333			
		250	435	307	377			
	750		397	276	343			
	1000		376	281	333			
		250	435	307	377			
		250	435	307	377			
	750		397	276	343			
	1500		360	272	320			
		750	452	306	386			
		1250	482	326	412			
	1500		416	267	349			
	1500		416	267	349			
		2000	500	321	420			
		2000	500	321	420			
		2000	515	313	424			
	1250		426	280	360			
		2000	500	321	420			
		3250	554	345	460			
		6000	675	430	565			
		750	444	333	394			
		750	452	322	393			
		2000	496	347	429			
	750		430	328	385			
	750		369	298	337			
		1500	541	369	464			
		4000	570	409	498			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			
		4000	562	379	480			
		4000	558	398	486			
		3250	573	336	466			
		2000	488	321	413			
		2500	442	357	403			
		2000	488	321	413			
		2500	442	357	403			
		2000	500	341	428			
		2500	531	331	441			
		2500	531	331	441			
		3250	580	347	475			
	750		396	285	346			
	750		396	285	346			
		4000	590	364	488			
		7250	710	421	580			
		7250	736	443	604			
		5000	638	370	517			
		7250	736	443	604			

	7250	736	443	604
	16500	1050	599	847
	10250	836	481	676
	10250	831	523	692
	12000	902	547	742
	6000	657	447	562
	7250	734	511	634
	6000	660	446	564
	8500	768	452	626
2500		354	262	313
750		377	302	343
2500		365	250	313
1000		397	310	358
1000		407	289	354
2250		363	278	324
250		393	313	357
2500		365	250	313
0		418	329	378
250		403	283	349
250		426	279	360
	2500	523	351	446
250		405	257	338
3000		340	245	297
3000		342	243	298
1500		383	292	342
2500		354	252	308
2750		344	252	303
3000		340	245	297
1000		379	281	334
1000		381	299	344
2000		361	262	316
3000		342	243	298
750		389	274	338
5350		212	185	200
2750		352	258	310
3000		342	243	298
1500		383	292	342
1500		391	266	335
2000		371	267	324
2000		365	259	317
3000		331	240	290
3250		330	239	289
1000		399	289	350
1500		388	275	337
	750	449	319	390
	750	431	344	392
	2000	484	336	417
	750	435	344	394
	1000	517	351	442
	3250	520	391	462
	2000	447	372	413

[illegible]	[illegible]	[illegible]	[illegible]	240V Char	120V Char PHEV Tota
293.8	199.8	251.5	375.8	281.3	333.3
344.2	218.7	287.7	435.2	306.7	377.4
320.8	202.3	267.5	397.5	276.5	343.0
293.8	199.8	251.5	375.8	281.3	333.3
344.2	218.7	287.7	435.2	306.7	377.4
344.2	218.7	287.7	435.2	306.7	377.4
320.8	202.3	267.5	397.5	276.5	343.0
282.0	189.0	240.2	360.0	272.0	320.4
358.0	219.0	295.4	452.0	306.0	386.3
383.5	233.0	315.8	481.7	326.0	411.6
331.0	194.0	269.4	415.7	267.3	348.9
331.0	194.0	269.4	415.7	267.3	348.9
397.5	239.9	326.6	500.5	320.9	419.7
397.5	239.9	326.6	500.5	320.9	419.7
409.5	232.0	329.6	515.1	313.1	424.2
339.0	198.0	275.6	425.6	280.1	360.1
397.5	239.9	326.6	500.5	320.9	419.7
447.5	262.0	364.0	554.1	344.7	459.9
559.0	346.0	463.2	675.0	430.0	564.8
352.0	238.0	300.7	444.5	332.7	394.2
358.0	230.0	300.4	451.6	321.9	393.2
390.0	251.0	327.4	496.0	347.0	429.0
348.0	234.0	296.7	430.5	328.5	384.6
380.0	223.0	309.4	369.0	298.0	337.0
446.0	260.0	362.3	541.0	369.0	463.6
458.0	295.0	384.6	569.6	409.5	497.6
540.1	299.6	431.9	655.8	394.0	538.0
650.6	360.5	520.1	770.1	435.7	619.6
577.0	309.4	456.6	685.6	400.2	557.2
646.2	378.3	525.6	754.5	455.5	620.0
540.1	299.6	431.9	655.8	394.0	538.0
650.6	360.5	520.1	770.1	435.7	619.6
577.0	309.4	456.6	685.6	400.2	557.2
646.2	378.3	525.6	754.5	455.5	620.0
466.0	296.0	389.5	562.0	379.0	479.6
463.0	307.0	392.8	558.0	398.0	486.0
467.0	253.0	370.7	573.0	336.1	466.4
396.0	248.0	329.4	488.0	321.0	412.8
443.0	266.0	363.4	441.7	356.7	403.4
396.0	248.0	329.4	488.0	321.0	412.8
443.0	266.0	363.4	441.7	356.7	403.4
401.0	256.0	335.8	500.0	341.0	428.4
428.2	253.6	349.6	531.0	331.4	441.2
428.2	253.6	349.6	531.0	331.4	441.2
468.0	267.0	377.6	580.3	347.3	475.4
313.0	210.7	267.0	395.8	285.1	346.0
313.0	210.7	267.0	395.8	285.1	346.0
466.0	265.0	375.6	590.0	364.0	488.3
576.0	314.0	458.1	709.5	420.8	579.6
617.0	333.0	489.2	736.3	442.9	604.3
510.0	288.0	410.1	638.0	370.0	517.4
617.0	333.0	489.2	736.3	442.9	604.3

617.0	333.0	489.2	736.3	442.9	604.3
885.0	495.0	709.5	1050.0	599.0	847.0
705.0	353.0	546.6	836.0	481.0	676.2
708.0	392.0	565.8	831.0	523.0	692.4
771.0	418.0	612.2	902.0	547.0	742.2
552.0	349.0	460.6	657.0	447.0	562.5
635.0	370.0	515.8	734.0	511.0	633.6
556.0	348.0	462.4	660.0	446.0	563.7
681.0	391.0	550.5	768.0	452.0	625.8
272.0	184.0	232.4	354.3	261.8	312.7
306.7	211.3	263.8	377.0	302.3	343.4
281.2	175.2	233.5	365.1	249.9	313.3
324.0	227.7	280.7	396.6	310.3	357.8
334.9	206.9	277.3	407.3	288.6	353.9
279.0	196.0	241.6	362.5	277.9	324.4
309.1	219.0	268.6	392.7	313.4	357.0
281.2	175.2	233.5	365.1	249.9	313.3
335.6	235.6	290.6	418.5	329.4	378.4
327.2	207.7	273.4	402.8	282.7	348.8
346.5	202.9	281.9	425.8	279.1	359.8
434.0	265.0	358.0	523.0	351.0	445.6
321.0	213.0	272.4	404.7	256.6	338.1
259.9	171.5	220.1	340.0	244.9	297.2
262.0	170.1	220.6	342.5	243.1	297.8
327.2	211.5	275.1	383.2	292.0	342.2
284.5	181.8	238.3	353.5	251.9	307.8
276.2	180.6	233.2	344.5	251.5	302.6
259.9	171.5	220.1	340.0	244.9	297.2
302.4	201.2	256.9	378.6	280.6	334.5
315.0	214.0	269.6	381.3	298.8	344.2
307.0	192.0	255.2	360.5	262.0	316.2
262.0	170.1	220.6	342.5	243.1	297.8
316.2	198.2	263.1	389.2	274.4	337.5
155.0	136.0	146.4	211.9	184.8	199.7
270.0	181.0	230.0	351.9	257.7	309.5
262.0	170.1	220.6	342.5	243.1	297.8
327.2	211.5	275.1	383.2	292.0	342.2
338.3	201.3	276.6	391.4	266.2	335.1
298.7	185.4	247.7	371.3	266.5	324.1
295.6	185.7	246.1	365.0	258.8	317.2
268.0	179.0	228.0	331.0	240.0	290.0
266.0	162.0	219.2	330.0	239.0	289.0
327.8	217.5	278.2	399.3	289.4	349.8
339.9	207.4	280.3	387.7	275.0	337.0
372.0	238.0	311.7	449.0	319.0	390.5
340.8	246.4	298.3	431.3	344.0	392.0
407.0	248.0	335.4	484.0	336.0	417.4
343.9	246.4	300.0	435.0	344.0	394.0
422.0	248.0	343.7	517.0	351.0	442.3
416.0	281.0	355.2	520.1	390.6	461.8
354.0	267.0	314.8	446.9	371.8	413.1

[illegible]	[illegible]	Comb Vol Higher	Final Label	EPA_FUEL	EPA_GHG	EPA_AMT
	N	3.7	3.7			
	N	4.2	4.2			
	N	3.8	3.8			
	N	3.7	3.7			
	N	4.2	4.2			
	N	4.2	4.2			
	N	3.8	3.8			
	N	3.6	3.6			
	N	4.3	4.3			
	N	4.5	4.5			
	N	3.4	3.4			
	N	3.4	3.4			
	N	4.8	4.8			
	N	4.8	4.8			
	N	4.8	4.8			
	N	3.6	3.6			
	N	4.8	4.8			
	N	5.3	5.3			
	N	6.2	6.2			
	N	4.3	4.3			
	N	4.3	4.3			
	N	4.8	4.8			
	N	3.7	3.7			
	N	3.8	3.8			
	N	4.5	4.5			
	N	5.6	5.6			
	N	5.9	5.9			
	N	7.1	7.1			
	N	6.2	6.2			
	N	7.1	7.1			
	N	5.9	5.9			
	N	7.1	7.1			
	N	6.2	6.2			
	N	7.1	7.1			
	N	5.6	5.6			
	N	5.6	5.6			
	N	5.3	5.3			
	N	4.8	4.8			
	N	5.0	5.0			
	N	4.8	4.8			
	N	5.0	5.0			
	N	4.8	4.8			
	N	5.0	5.0			
	N	5.0	5.0			
	N	5.3	5.3			
	N	3.8	3.8			
	N	3.8	3.8			
	N	5.6	5.6			
	N	6.7	6.7			
	N	6.7	6.7			
	N	5.9	5.9			
	N	6.7	6.7			

N	6.7	6.7
N	10.0	10.0
N	7.7	7.7
N	7.7	7.7
N	8.3	8.3
N	6.2	6.2
N	6.7	6.7
N	6.2	6.2
N	7.1	7.1
N	3.1	3.1
N	3.8	3.8
N	3.1	3.1
N	4.0	4.0
N	4.0	4.0
N	3.2	3.2
N	4.0	4.0
N	3.1	3.1
N	4.3	4.3
N	4.0	4.0
N	4.0	4.0
N	5.0	5.0
N	4.0	4.0
N	2.9	2.9
N	2.9	2.9
N	3.8	3.8
N	3.4	3.4
N	3.3	3.3
N	2.9	2.9
N	3.7	3.7
N	4.0	4.0
N	3.6	3.6
N	2.9	2.9
N	3.8	3.8
N	2.2	2.2
N	3.0	3.0
N	2.9	2.9
N	3.8	3.8
N	3.8	3.8
N	3.6	3.6
N	3.6	3.6
N	2.9	2.9
N	2.9	2.9
N	4.0	4.0
N	3.8	3.8
N	4.3	4.3
N	4.3	4.3
N	4.8	4.8
N	4.3	4.3
N	4.3	4.3
N	5.3	5.3
N	4.8	4.8

| [illegible] | [illegible] | [illegible] |

Mr Richard E Thomas Jr
Mr Richard E Thomas Jr
Mr Richard E Thomas Jr

mined)

To: Boundy, Robert Gary (boundyrg@ornl.gov)[boundyrg@ornl.gov]
Cc: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Mon 7/22/2013 1:59:46 PM
Subject: 2014 Volkswagen Touareg Hybrid Image
Tou-14-0046-Hybrid.tif

Hello Bob;

I noticed that the 2014 listing on the fueleconoy.gov site had no picture for the Volkswagen Touareg Hybrid, so I have attached one for your convenience. Let me know if this works.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com


TOUAREG
TXR 271

To: Boundy, Robert Gary (boundyrg@ornl.gov)[boundyrg@ornl.gov]
Cc: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Mon 7/22/2013 2:04:56 PM
Subject: 2014 Audi Images
14 RS 5 Cabriolet.jpg
14 RS 7.jpg

Hi Bob;

Here are a couple of photos for the 2014 Audi RS 5 Cabriolet and RS 7 for the fuel economy guide web site.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com





To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Allen, Gregory[Gregory.Allen@vw.com]
From: Snyder, Jim
Sent: Mon 7/22/2013 5:45:29 PM
Subject: RE: Certificate Ex. 4 - CBI has been issued
Ex. 4 - CBI

-----Original Message-----
From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, July 22, 2013 8:46 AM
To: Snyder, Jim
Cc: Allen, Gregory
Subject: RE: Certificate Ex. 4 - CBI has been issued

Thanks no rush.

-----Original Message-----
From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, July 22, 2013 8:44 AM
To: Rodgers, William (EEO)
Subject: RE: Certificate Ex. 4 - CBI has been issued

Nobody can sign into Verify this morning. I'll send it once its fixed.

-----Original Message-----
From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, July 22, 2013 8:03 AM
To: Snyder, Jim
Subject: RE: Certificate Ex. 4 - CBI has been issued

resend

-----Original Message-----
From: Rodgers, William (EEO)
Sent: Monday, July 22, 2013 7:26 AM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Cc: Verify Help Desk; Allen, Gregory; Giles, Michael
Subject: FW: Certificate Ex. 4 - CBI has been issued

Hello Jim,
Please forward a pdf copy of the Certificate mentioned below. It continues to be a problem when Certificates are only accessible by the submitter.

Thanks,
Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

-----Original Message-----
From: no-reply@epa.gov [mailto:no-reply@epa.gov]
Sent: Friday, July 19, 2013 12:56 PM
To: Rodgers, William (EEO); Hart, Robert (VWoA); Giles, Michael (EEO); VWoA EEO Government
Subject: Certificate [redacted] has been issued

The following is a courtesy copy of status message for a Verify submission. Any references made to links refer to links which will appear in the CDX Inbox message.

Certificate Number [redacted] has been issued. A copy of the signed certificate is attached below.

The Verify submission this message relates to has the following values:

Test Group Name: [redacted]

The following transaction identifier has been assigned to this request:

[redacted]

Please do not reply to this message.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2014 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT OF 1990

OFFICE OF TRANSPORTATION AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Bentley Motors Ltd.**
(U.S. Manufacturer or Importer)

Certificate Number: **EBEXV06.84LA-002**

Effective Date: 07/19/2013

Expiration Date: 12/31/2014

Byron J. Bunker, Division Director
Compliance Division

Issue Date: 07/19/2013

Revision Date: N/A

Test Group Name: EBEXV06.84LA
Evaporative/Refueling Family Name: EBEXR0220262
Applicable Exhaust Emission Standards: Federal Tier 2 Bin 5
Applicable Evaporative/Refueling Standards: Federal LEV-II Evap

Engine Displacement: 6.8 Liters
Exhaust Emission Test Fuel Type: Tier 2 Cert Gasoline
Full Useful Life Miles: Exhaust Emissions: 120,000 miles
Full Useful Life Miles: Evaporative/Refueling Emissions: 120,000 miles

Models Covered: Bentley Motors Ltd.: Mulsanne

Pursuant to section 206 of the Clean Air Act (42 U.S.C.7525) and 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable, this certificate of conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Parts 85, 86, 88, 1037, and 600 as applicable) and which represent the new motor vehicle models listed above by test group and evaporative/refueling emission family, more fully described in the application of the above named manufacturer. Vehicles covered by this certificate have demonstrated compliance with the applicable emission standards as more fully described in the manufacturer's application. This certificate covers the above models, which are designed to meet the applicable emission standards specified in 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable at both high and low altitude as applicable.

EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1848(c), and 40 CFR 1037 as applicable.

This certificate covers only those new motor vehicles or vehicle engines which conform, in all material respects, to the design specifications that apply to those vehicles or engines described in the documentation required by 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable and which are produced during the 2014 model year production period stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 85, 86, 88, 1037, and 600 as applicable. The manufacturer shall obtain the approval of the California Air Resources Board (in the form of an executive order issued by the California Air Resources Board) prior to introducing any vehicle covered by this certificate into commerce 1) in the State of California, or 2) in a State that, under the authority of Section 177 of the Clean Air Act, has adopted and placed into effect the California standards to which this test group has been certified.

Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded fuel. This certificate is issued subject to the conditions specified in 40 CFR 80.24. Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel, otherwise covered by this certificate, which are driven outside the United States, Canada, Mexico, Japan, Australia, Taiwan and the Bahama Islands will be presumed to have been operated on leaded fuel resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this certificate unless included in a catalyst control program operated by manufacturer or a United States Government Agency and approved by the Administrator.

In the case of completely assembled vehicles, this certificate of conformity covers only vehicles which are completely manufactured prior to January 1, 2015. Normally incompletely assembled vehicles (such as cab chassis) may be completed after this date, provided that the basic manufacturing (including installation of the emission control system) was completed prior to January 1, 2015. This certificate does not cover vehicles sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Mon 7/22/2013 6:07:23 PM
Subject: RE: Certificate EBEXV06.84LA-002 with Evap Family EBEXR0220262 has been issued

Thanks Jim

-----Original Message-----
From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, July 22, 2013 1:45 PM
To: Rodgers, William (EEO)
Cc: Allen, Gregory
Subject: RE: Certificate EBEXV06.84LA-002 with Evap Family EBEXR0220262 has been issued

-----Original Message-----
From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, July 22, 2013 8:46 AM
To: Snyder, Jim
Cc: Allen, Gregory
Subject: RE: Certificate EBEXV06.84LA-002 with Evap Family EBEXR0220262 has been issued

Thanks no rush.

-----Original Message-----
From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, July 22, 2013 8:44 AM
To: Rodgers, William (EEO)
Subject: RE: Certificate EBEXV06.84LA-002 with Evap Family EBEXR0220262 has been issued

Nobody can sign into Verify this morning. I'll send it once its fixed.

-----Original Message-----
From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Monday, July 22, 2013 8:03 AM
To: Snyder, Jim
Subject: RE: Certificate EBEXV06.84LA-002 with Evap Family EBEXR0220262 has been issued

resend

-----Original Message-----
From: Rodgers, William (EEO)
Sent: Monday, July 22, 2013 7:26 AM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Cc: Verify Help Desk; Allen, Gregory; Giles, Michael
Subject: FW: Certificate EBEXV06.84LA-002 with Evap Family EBEXR0220262 has been issued

Hello Jim,
Please forward a pdf copy of the Certificate mentioned below. It continues to be a problem when Certificates are only accessible by the submitter.

Thanks,
Bill Rodgers
Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.
Engineering and Environmental Office
Auburn Hills, MI
(248) 754-4219
william.rodgers@vw.com

-----Original Message-----
From: no-reply@epa.gov [mailto:no-reply@epa.gov]
Sent: Friday, July 19, 2013 12:56 PM
To: Rodgers, William (EEO); Hart, Robert (VWoA); Giles, Michael (EEO); VWoA EEO Government
Subject: Certificate EBEXV06.84LA-002 with Evap Family EBEXR0220262 has been issued

The following is a courtesy copy of status message for a Verify submission. Any references made to links refer to links which will appear in the CDX Inbox message.

Certificate Number EBEXV06.84LA-002 with Evaporative Family EBEXR0220262 has been issued. A copy of the signed certificate is attached below.

The Verify submission this message relates to has the following values:

Test Group Name: EBEXV06.84LA

The following transaction identifier has been assigned to this request:

_d8422401-ff2d-4452-8446-7f482bd85e8d

Please do not reply to this message.

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Thur 7/25/2013 2:25:14 PM
Subject: FW: Drivers Trace Information Request VID 3UF-SQ5
D920130217010testtra.xls
D220130217012testtra.xls

From: Courtois, William
Sent: Thursday, July 25, 2013 10:15 AM
To: Snyder, Jim
Subject: RE: Drivers Trace Information Request VID 3UF-SQ5

Jim,

The two files are attached.

Bill

From: Snyder, Jim
Sent: Thursday, July 25, 2013 9:16 AM
To: Courtois, William
Subject: FW: Drivers Trace Information Request VID 3UF-SQ5

Bill, can you access these traces for VW?

Jim

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, July 24, 2013 11:28 AM
To: Snyder, Jim
Cc: Kata, Leonard (EEO); Giles, Michael (EEO); Allen, Gregory
Subject: Drivers Trace Information Request VID 3UF-SQ5

Hello Jim,

To better understand the result differences found between our manufacturer tests and the EPA confirmatory tests recently performed, we are interested in obtaining the EPA drivers trace data from the FTP75 testing performed on June 28th and July 16th for the Ex. 4 - CBI , Ex. 4 - CBI Ex. 4 - CBI The lab test numbers are as follows:

Ex. 4 - CBI

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Thur 7/25/2013 3:25:31 PM
Subject: RE: Drivers Trace Information Request VID 3UF-SQ5

Thanks Jim.

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, July 25, 2013 10:25 AM
To: Rodgers, William (EEO)
Subject: FW: Drivers Trace Information Request VID 3UF-SQ5

From: Courtois, William
Sent: Thursday, July 25, 2013 10:15 AM
To: Snyder, Jim
Subject: RE: Drivers Trace Information Request VID 3UF-SQ5

Jim,

The two files are attached.

Bill

From: Snyder, Jim
Sent: Thursday, July 25, 2013 9:16 AM
To: Courtois, William
Subject: FW: Drivers Trace Information Request VID 3UF-SQ5

Bill, can you access these traces for VW?

Jim

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, July 24, 2013 11:28 AM
To: Snyder, Jim
Cc: Kata, Leonard (EEO); Giles, Michael (EEO); Allen, Gregory
Subject: Drivers Trace Information Request VID 3UF-SQ5

Hello Jim,

To better understand the result differences found between our manufacturer tests and the EPA confirmatory tests recently performed, we are interested in obtaining the EPA drivers trace data from the FTP75 testing performed on June 28th and July 16th for the 2014 Audi SQ5, Vehicle ID 3UF-SQ5. The lab test numbers are as follows:

2013-0217-010

2013-0217-012

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Good, David[good.david@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Fri 7/26/2013 11:54:57 AM
Subject: FW: 2014 Volkswagen Jetta Hybrid Test Group Name - Correction

For your information, we are looking for the simplest, fastest way to accomplish this correction. Bill will summit the application with the corrected test group name today. Barbara was going to speak with Lynn Sohacki but I have not heard anything since I spoke with Barbara a couple days ago.

From: Thomas, Richard (EEO)
Sent: Wednesday, July 24, 2013 10:30 AM
To: Stump, Barbara (Stump.Barbara@epa.gov)
Subject: 2014 Volkswagen Jetta Hybrid Test Group Name - Correction

Hi Barbara;

We have discovered that the factory in Germany changed the test group name of the 2014 Jetta Hybrid from EVWXV01.4**PHE** to EVWXV01.4**HEV** without our office noticing this change. We paid the certification fee and were issued a certificate under the wrong test group name. We are working to correct the application and now we need to change the certification fee payment from test group name EVWXV01.4**PHE** to the correct name of: EVWXV01.4**HEV**.

Is there a simple way in which we can make this correction to the test group or must we withdraw the incorrect test group and get a refund first and reapply it to the correct name? What is the procedure? I could not find your phone number to call in the directory, could you please call me.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road

Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Good, David[good.david@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Fri 7/26/2013 11:54:57 AM
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Subject: 2014 Volkswagen Jetta Hybrid Test Group Name - Correction

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Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road

Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Good, David[good.david@epa.gov]; Stump, Barbara[Stump.Barbara@epa.gov]; Rodgers, William (EEO)[William.Rodgers@vw.com]; Sohacki, Lynn[sohacki.lynn@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Fri 7/26/2013 1:21:30 PM
Subject: Corrected Test Group Name for 2014 Jetta Hybrid
2014 Jetta Hybrid TG correction form.pdf

Hi Jim;

Please find attached the EPA Certification Fee correction form (if needed) to correct the test group name of our already certified 2014 Jetta Hybrid. Bill has sent the corrected application today and has made the changes to the CSI information and has requested the issuance of a certificate of conformity, if this is the way in which you choose to handle this correction. Please make contact with Bill, when you are back, regarding how we can correct the name. We might have to withdraw the original test group and request a new certificate. Lynn was going to contact you also, with regard to this correction.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

U.S. Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
Correction Form

Date: 07/26/2013

Manufacturer Name: Volkswagen Group of America, Inc.

Family Name: EVWXV01.4PHE

Original Payment Date: 06/13/2013

Original Amount Paid: $29,848.00

Revised Family Name: EVWXV01.4HEV

Company Representative:

Name: Richard E Thomas Phone: 248 754 4213

Email Address: Richard.Thomas@VW.com Fax: (optional)

Reason for Correction:

- [x] Typographical error in original family or test group name.
- [ ] Overpayment for original family name, please apply the overpayment to the revised family name. Write the overpayment amount in the comments box.
- [ ] Other (explain in comments box):

Comments: accidentally did not change the last three characters of the test group name from the previous model year test group

Submission:

(1) Forms may be filled out and submitted online at www.Pay.gov.
(2) Forms may be submitted as email attachments to Fees@epa.gov
(3) Forms may be submitted by surface mail to:

Environmental Protection Agency- NVFEL
Fees Team
Compliance Division
2000 Traverwood
Ann Arbor, Michigan 48105

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.

U.S. Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
Correction Form

Date: 07/26/2013

Manufacturer Name: Volkswagen Group of America, Inc.

Family Name: EVWXV01.4PHE

Original Payment Date: 06/13/2013

Original Amount Paid: $29,848.00

Revised Family Name: EVWXV01.4HEV

Company Representative:

Name: Richard E Thomas Phone: 248 754 4213

Email Address: Richard.Thomas@VW.com Fax: (optional)

Reason for Correction:

- [x] Typographical error in original family or test group name.
- [ ] Overpayment for original family name, please apply the overpayment to the revised family name. Write the overpayment amount in the comments box.
- [ ] Other (explain in comments box):

Comments: accidentally did not change the last three characters of the test group name from the previous model year test group

Submission:

(1) Forms may be filled out and submitted online at www.Pay.gov.
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Environmental Protection Agency- NVFEL
Fees Team
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To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
Cc: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]; Stump, Barbara[Stump.Barbara@epa.gov]
From: Snyder, Jim
Sent: Tue 7/30/2013 4:29:15 PM
Subject: RE: Corrected Test Group Name for 2014 Jetta Hybrid

Bob said you might be able to just change the Test group name in the FE label. Is there a box that requests test group? If not you can invalidate or void it .

I passed the correction form to Barbra Stump so your fees can be re-assigned to the correct test group name. Once that's done I will have Chris Nevers void the old certificate name and I will approve the new one.

-JIM

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Friday, July 26, 2013 9:22 AM
To: Snyder, Jim
Cc: Good, David; Stump, Barbara; Rodgers, William (EEO); Sohacki, Lynn; Kata, Leonard (EEO)
Subject: Corrected Test Group Name for 2014 Jetta Hybrid

Hi Jim;

Please find attached the EPA Certification Fee correction form (if needed) to correct the test group name of our already certified 2014 Jetta Hybrid. Bill has sent the corrected application today and has made the changes to the CSI information and has requested the issuance of a certificate of conformity, if this is the way in which you choose to handle this correction. Please make contact with Bill, when you are back, regarding how we can correct the name. We might have to withdraw the original test group and request a new certificate. Lynn was going to contact you also, with regard to this correction.

Best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]; Stump, Barbara[Stump.Barbara@epa.gov]
From: Thomas, Richard (EEO)
Sent: Tue 7/30/2013 4:30:50 PM
Subject: RE: Corrected Test Group Name for 2014 Jetta Hybrid

Thank you much.

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, July 30, 2013 12:29 PM
To: Thomas, Richard (EEO)
Cc: Peavyhouse, Robert; Stump, Barbara
Subject: RE: Corrected Test Group Name for 2014 Jetta Hybrid

Bob said you might be able to just change the Test group name in the FE label. Is there a box that requests test group? If not you can invalidate or void it .

I passed the correction form to Barbra Stump so your fees can be re-assigned to the correct test group name. Once that's done I will have Chris Nevers void the old certificate name and I will approve the new one.

-JIM

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Friday, July 26, 2013 9:22 AM
To: Snyder, Jim
Cc: Good, David; Stump, Barbara; Rodgers, William (EEO); Sohacki, Lynn; Kata, Leonard (EEO)
Subject: Corrected Test Group Name for 2014 Jetta Hybrid

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Best regards,

Richard

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3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Sohacki, Lynn[sohacki.lynn@epa.gov]
From: Glas, Tobias
Sent: Tue 7/30/2013 4:54:13 PM
Subject: RE: Hello!

Hi Lynn !

I hope everything is well over there at EPA!

We are are close to finishing the IUVP programs, and my understanding is that I should send an email to you to state when we are done.

Please let me know who should get that email and what kind of information should be included.

Thank you !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Wednesday, February 06, 2013 4:07 PM
To: Glas, Tobias
Subject: Hello!

Hi, Tobias.

I look forward to working with you in EPA's in-use program. Please feel free to call me if you have any questions.

Regards,

Lynn Sohacki
Environmental Protection Agency
734-214-4851
734-214-4869 (fax)

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Wed 7/31/2013 12:29:35 PM
Subject: RE: Please Deny Cert Request - Jetta Hybrid

Your request to Deny is approved.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, July 31, 2013 7:32 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory
Subject: Please Deny Cert Request - Jetta Hybrid

Hello Jim,

Per my phone message, please deny the Certification request for 2014 Test Group
Ex. 4 - CBI

Thanks,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 7/31/2013 3:24:24 PM
Subject: RE: Jetta Hybrid

Jim,

We have resubmitted the applications and Cert Request with the corrected Evap family name for the Jetta Hybrid. No big rush on this due to a delayed introduction, but if a Certificate can be issued by the end of next week that will be sufficient. Thanks for the help.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Wednesday, July 31, 2013 8:30 AM
To: Rodgers, William (EEO)
Subject: RE: Please Deny Cert Request - Jetta Hybrid

Your request to Deny is approved.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, July 31, 2013 7:32 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory
Subject: Please Deny Cert Request - Jetta Hybrid

Hello Jim,

Per my phone message, please deny the Certification request for 2014 Test Group EVWXV01.4HEV, Evap family EVWXR0110PHE, so we can change the evap family name.

Thanks,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Boundy, Robert Gary (boundyrg@ornl.gov)[boundyrg@ornl.gov]
Cc: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Thur 8/1/2013 1:10:12 PM
Subject: 2014 Bugatti Veyron Image
14 Bugatti Veyron.bmp

Hi Bob;

Here is a photo image of the 2014 Bugatti Veyron that can be used for the fuel economy guide. Let me know if it will work and you can format it properly for the web site. If you have any questions, please contact me.

Thanks.

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com



To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Fri 8/2/2013 4:50:36 PM
Subject: 2014 Fuel Economy

Thanks Dave, I listened to your voice mail and no need to send the complete file. I'll be back on Monday the 12th. I'll have my laptop with me so if you come across anything that needs immediate attention just send an email.

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: richard.thomas@vw.com[richard.thomas@vw.com]; jyarrow@astonmartin.com[jyarrow@astonmartin.com]; thomas.hofmann@bmwna.com[thomas.hofmann@bmwna.com]; kachuen.wong@bmwna.com[kachuen.wong@bmwna.com]; j.foor@chrysler.com[j.foor@chrysler.com]; asw9@chrysler.com[asw9@chrysler.com]; Dave Barker[dba1@subaru.com]; elarue1@ford.com[elarue1@ford.com]; jcusuman@ford.com[jcusuman@ford.com]; doug.devries@gm.com[doug.devries@gm.com]; deborah.a.zielesch@gm.com[deborah.a.zielesch@gm.com]; laura.l.parker@gm.com[laura.l.parker@gm.com]; peter_meier@ahm.honda.com[peter_meier@ahm.honda.com]; Darin_Johnson@AHM.Honda.com[Darin_Johnson@AHM.Honda.com]; Tony D'Ambrosi[adambrosi@hatci.com]; Simon (Seungwon) Shin[seungwon@hatci.com]; vvarjabe@jaguar.com[vvarjabe@jaguar.com]; vvarjabe@jaguarlandrover.com[vvarjabe@jaguarlandrover.com]; rseal3@jaguar.com[rseal3@jaguar.com]; kareen.toussagnon@daimler.com[kareen.toussagnon@daimler.com]; markus.loesch@daimler.com[markus.loesch@daimler.com]; roland.mulde@daimler.com[roland.mulde@daimler.com]; john.gantchar@na.mitsubishi-motors.com[john.gantchar@na.mitsubishi-motors.com]; david.patterson@na.mitsubishi-motors.com[david.patterson@na.mitsubishi-motors.com]; KhanF@NRD.NISSAN-USA.COM[KhanF@NRD.NISSAN-USA.COM]; yamaday@ntcna.nissan-usa.com[yamaday@ntcna.nissan-usa.com]; ross.gatzke@porsche.us[ross.gatzke@porsche.us]; luis.hernandez@suz.com[luis.hernandez@suz.com]; drobertson@mazdausa.com[drobertson@mazdausa.com]; nokawa@mazdausa.com[nokawa@mazdausa.com]; Masahiro Konno[masahiro.konno@tema.toyota.com]; matthew.kevnick@tema.toyota.com[matthew.kevnick@tema.toyota.com]; gbuffali@volvocars.com[gbuffali@volvocars.com]; French, Roberts[french.roberts@epa.gov]; Wehrly, Linc[wehrly.linc@epa.gov]; bstott@ferrariusa.com[bstott@ferrariusa.com]; snagaraj@teslamotors.com[snagaraj@teslamotors.com]; gvsm@worldnet.att.net[gvsm@worldnet.att.net]; ed.smallbone@mclaren.com[ed.smallbone@mclaren.com]; icawdron@lotuscars.com[icawdron@lotuscars.com]; peter.janosi@roush.com[peter.janosi@roush.com]; gavin.ge@byd.com[gavin.ge@byd.com]
From: Good, David
Sent: Fri 8/9/2013 5:48:51 PM
Subject: 2014 EPA/DOE Printed FE Guide - Timing for the 2014 Printed Guide; please start emailing me placeholder information
EPA 2014 Printed Guide-schedule-and-placeholder info-8-9-2013.pdf

To manufacturer representatives who handle 2014 FE Labels:

The EPA Guidance letter for the 2014 FE Printed Guide is a little late this year. It should be signed and posted on the web in a week or so.

Attached is the DRAFT schedule for including FE Label information in the 2014 Printed Guide. Also included in the attachment is some information about sending "placeholder" information to me for 2014 model year diesel, hybrid, electric, PHEV and alternative fueled vehicles (including

FFVs) for which the final fuel economy values won't be available by August 28, 2013. [Note: The page numbers in the attachment are not correct---it only has three pages.]

Please start emailing me the placeholder information in an Excel spreadsheet as soon as possible. [I don't need placeholder information for 2014 vehicles which the FE Label information has already been entered in EPA's Verify database (or will be entered before August 28, 2013).]

If you have questions about this message, please contact me at 734-214-4450 or by email.

Note that as a result of sequestration, Friday, August 30, 2013 is a required furlough day for all EPA employees and we will not be allowed to come to work on that day.

Thanks

From: Good, David
Sent: Friday, July 19, 2013 3:17 PM
To: 'richard.thomas@vw.com'; 'jyarrow@astonmartin.com'; 'thomas.hofmann@bmwna.com'; 'kachuen.wong@bmwna.com'; 'j.foor@chrysler.com'; 'asw9@chrysler.com'; 'Dave Barker'; 'elarue1@ford.com'; 'jcusuman@ford.com'; 'doug.devries@gm.com'; 'deborah.a.zielesch@gm.com'; 'laura.l.parker@gm.com'; 'peter_meier@ahm.honda.com'; 'Darin_Johnson@AHM.Honda.com'; Tony D'Ambrosi; 'Simon (Seungwon) Shin'; 'vvarjabe@jaguar.com'; 'vvarjabe@jaguarlandrover.com'; 'rseal3@jaguar.com'; 'kareen.toussagnon@daimler.com'; 'markus.loesch@daimler.com'; 'roland.mulde@daimler.com'; 'john.gantchar@na.mitsubishi-motors.com'; david.patterson@na.mitsubishi-motors.com; 'KhanF@NRD.NISSAN-USA.COM'; 'yamaday@ntcna.nissan-usa.com'; 'ross.gatzke@porsche.us'; 'luis.hernandez@suz.com'; 'drobertson@mazdausa.com'; 'nokawa@mazdausa.com'; 'Masahiro Konno'; 'matthew.kevnick@tema.toyota.com'; 'gbuffali@volvocars.com'; French, Roberts; Wehrly, Linc
Subject: 2014 FE Guide - Timing for posting 2014 vehicles on www.fueleconomy.gov

To manufacturer representatives who handle 2014 FE Labels:

For the next few months, DOE & I will update www.fueconomy.gov 4 times a month, instead of twice a month.

Here's my new plan:

1. I'll send DOE a complete 2014 dataset on the 1st and 15th of the month as usual (or a couple days later---depending on my days off, work load, etc). I'll also send DOE some "adds" on approx the 9th and 23rd of the month (depending on my work schedule, weekends etc.) The "adds" will be error free data from the previous query of Verify database (on the 1st or 15th of the month) which have the appropriate release dates. For example, on August 9th, I'll send DOE a file of 2014 FE labels with release dates from August 2nd to August 9th from the August 1st query of the Verify database. [I won't do a fresh query of the Verify database on August 9th.]

2. Also, if a manufacturer wants EPA/DOE to post 2014 FE labels on www.fueleconomy.gov on a certain date (e.g. to coincide with a manufacturer's press release), please send me an email request outlining what data to post (manufacturer name and Index numbers) and the date and time when you would like it posted. I can't handle a large volume of these requests----but I'll be glad to work with you on some special vehicle introductions. Please email your request to me 1-2 weeks or so before you would like it posted and try to make sure that there are no errors in Verify for the data to be posted. DOE and I will arrange to have the data posted fairly soon after the specified date & time.

No guarantee on these requests for special releases. I'll see how many requests I get, and let you know if I'm overwhelmed.

Please let me know if you have any questions (or suggestions) about this new plan.

Thanks

Dave

ENCLOSURE 3

Timetable for 2014 MY Printed Fuel Economy Guide

Task	Significant Dates	Responsible Party
1. Obtain an EPA Certificate which covers all model types to be included in the Guide.	August 15, 2013	Manufacturer
2. Enter general label fuel economy values and any other related information required by the Guide into EPA Verify database for all model types to be included in the Guide.	August 15, 2013	Manufacturer
3. Provide EPA **"placeholder"** descriptions and fuel economy values (as outlined in Enclosure 2) for alternative fuel vehicles which will not be available until later in the model year.	August 15, 2013	Manufacturer
4. Compile a list from Verify with all necessary information for model types to be included in the Guide for each manufacturer; send the list to an individual manufacturer for data accuracy review.	August 16, 2013	EPA
5. Complete review of all information provided in "4" above, make necessary corrections in the Verify database and notify EPA that the data in Verify is complete and accurate.	August 28, 2013	Manufacturer
6. Send the complete Guide information to DOE for printing.	August 30, 2013	EPA
7. EPA announces 2014 Guide via a Press Release	early October, 2013	EPA

Comparable Class Fuel Economy Ranges

Task	Significant Dates	Responsible Party
1. Release the comparable class fuel economy ranges to be used on fuel economy labels to the manufacturers.	August 30	EPA
2. Ranges are required on labels as of this date.	September 16	Manufacturer

EPA intends to include in the printed Guide, all available information which is submitted to EPA prior to August 29, 2013. August 28, 2013 is the last day for manufacturers to make changes to the EPA computer database.

VW FOIA, EPA 06/20/2017 2017-FFP_006771

3. Placeholders for New Technology and Alternative-Fueled Vehicles Which will be Available Later in the 2014 Model Year

If the city and highway fuel economy values and driving ranges will not be available by August 28, 2013, manufacturers should submit the information in the tables below with the fuel economy and driving ranges listed as "NA" (not available). Please include the manufacturer/division name, carline name, transmission type, engine displacement in liters, engine number of cylinders, vehicle class, interior volume for 2-door, 4-door, hatchback models, and the cargo volume (if applicable). Please don't send placeholder information for vehicles which are already in EPA's Verify database. The information should be emailed to Dave Good at good.david@epa.gov on or before the date listed in Enclosure 3.

To provide placeholder information for **fuel cell vehicles**, manufacturers should provide an Excel file with the following information, plus a short explanation of the availability of the vehicles, as follows:

Model Name	Veh. Class, Body type, Pass/Cargo Volume	Trans Type	Type of Fuel Cell	Motor Type & Power	Energy Storage Device and Rating	Fuel Type	Miles Per Kilogram		Driving Range (miles)
							City	Hwy	
AB	Compact 2dr – 91/12	Auto (A1)	PEM	100 kW-AC Induction	144 Volt Nickel Metal Hydride	Hydrogen	NA	NA	NA
CD	SUV	Auto CVT	PEM	100 kW-DC Brushless	244 Volt Lithium Ion	Hydrogen	NA	NA	NA

Availability:

AB Fuel Cell vehicles are initially available in California and Arizona only.

CD Fuel Cell vehicles will be available nationwide (initially for lease only) in the late fall of 2013.

Additional information may also be included if necessary to describe your vehicles.

To provide placeholder information for **electric vehicles,** manufacturers should provide an Excel file plus a short explanation of the availability of the vehicles, as follows:

Carline Name	Veh. Class, Body Type, Pass/Cargo Volume	Type of Battery	Trans Type	Motor Size Type	Energy Consumption (KW-hr/100mi)		Driving Range (miles)
					City	Hwy	
AB Electric	Large Cars 4dr-113/13	Lead-Acid	Auto (A1)	95 KW AC Induction	NA	NA	NA
AB Electric	Large Cars 4dr-113/13	Nickel-Metal Hydride	Auto (A2)	45 KW AC Induction	NA	NA	NA
CD Electric	Subcompact 2 dr-85/11	Lithium-Ion	Auto CVT	62 KW DC	NA	NA	NA

Availability:

AB Electric vehicles are initially available to the U.S. Postal Service in California and Arizona only.

CD Electric vehicles will be available nationwide (initially for lease only) in the late fall of 2013.

Additional information may also be included if necessary to describe your vehicles.

VW FOIA, EPA 06/20/2017 2017-FFP_006772

To provide placeholder information for **other alternative fueled vehicles**, manufacturers should provide an Excel file with the following information:

Model Name	Vehicle Class, Body Type Pass/Cargo	Trans Type	No. of cyl.	Engine	Fuel Type	Miles Per Gallon		Driving Range (miles)
						City	Hwy	
AA	Compact 4dr - 95/11	Auto(A5)	4	1.8L	Dedicated CNG	NA	NA	NA
BB	SUV-4WD	Auto(A4)	8	5.3L	E85	NA	NA	NA
					Gasoline	NA	NA	NA

To provide placeholder information for **plug-in hybrid electric vehicles (PHEVs)**, manufacturers should provide an Excel file with the information from both the electric vehicle table above and the "other alternative fueled vehicle" table above.

VW FOIA, EPA 06/20/2017 2017-FFP_006773

To: Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Mon 8/12/2013 4:36:57 PM
Subject: FW: N2O testing waiver extended through MY 2016

From: French, Roberts
Sent: Monday, August 12, 2013 12:36 PM
To: Snyder, Jim
Subject: N2O testing waiver extended through MY 2016

86.1829 (b)(1)(iii)

(G) For the 2012 through 2016 model years, in lieu of testing a vehicle for N_2O emissions, a manufacturer may provide a statement in its application for certification that such vehicles comply with the applicable standards. Such a statement may also be used for 2017 and 2018 model year vehicles only if the application for certification for those vehicles is based upon data carried over from a prior model year, as allowed under this subpart. No 2019 and later model year vehicles may be waived from testing for N_2O emissions. Such a statement must be based on previous emission tests, development tests, or other appropriate information and good engineering judgment. Vehicles certified to N_2O standards using a compliance statement in lieu of submitting test data are not required to collect and submit N_2O emission data under the in-use verification testing requirements of § 86.1845.

Roberts W. French, Jr.

Environmental Protection Specialist

Compliance Division

National Vehicle and Fuel Emissions Laboratory

2000 Traverwood Drive

Ann Arbor, Michigan 48105

Phone: (734) 214-4380

Fax: (734) 214-4053

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Giles, Michael (EEO)
Sent: Mon 8/12/2013 5:00:15 PM
Subject: RE: N2O testing waiver extended through MY 2016

Hi Jim,

Thanks for the information, not sure why I didn't find this before.

Regards

Mike

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, August 12, 2013 12:37 PM
To: Giles, Michael (EEO)
Subject: FW: N2O testing waiver extended through MY 2016

From: French, Roberts
Sent: Monday, August 12, 2013 12:36 PM
To: Snyder, Jim
Subject: N2O testing waiver extended through MY 2016

86.1829 (b)(1)(iii)

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Roberts W. French, Jr.

Environmental Protection Specialist

Compliance Division

National Vehicle and Fuel Emissions Laboratory

2000 Traverwood Drive

Ann Arbor, Michigan 48105

Phone: (734) 214-4380

Fax: (734) 214-4053

To: richard.thomas@vw.com[richard.thomas@vw.com]
From: Good, David
Sent: Tue 8/13/2013 5:26:18 PM
Subject: FW: Your EPA Inquiry - 2013 Volkswagen Jetta Hybrid [Jennifer do you have any further history on this one?]

Richard,

This is all we have on the vehicle. Please wait until after I call him---before you contact him. I'll get his VIN and forward it to you.

Dave

From: France, Jennifer
Sent: Friday, August 09, 2013 6:21 PM
To: Good, David
Subject: RE: Your EPA Inquiry - 2013 Volkswagen Jetta Hybrid [Jennifer do you have any further history on this one?]

Hi Dave,

Yeah, I agree it's a tough one – that's why I sent it to you!! There are no other messages – his first message was the one asking for the manager. I wasn't even sure what his issue was, but I assumed it had to do with low fuel economy, so I sent him that standard response and hoped it would satisfy him, but it didn't obviously.

Ex. 5

The Environmental Protection Agency has launched an evaluation of whether the ways it tests gas mileage give realistic window-sticker ratings for advanced hybrid cars. The probe centers on a generation of hybrids capable of highway speeds on electric power alone. Chris Grundler, EPA's director of the Office of Transportation and Air Quality,

said he wants to be sure the EPA's testing procedures are keeping up with rapidly evolving auto technology. "This is a different type of hybrid, and we need to understand it," he told USA TODAY in an interview. The agency's action comes after *Consumer Reports* wrote that its gas mileage in real-world use of Ford's new C-Max crossover and Fusion sedan hybrids, 37 mpg and 39 overall, respectively, fell far short of their EPA ratings of 47 in mixed driving. The EPA's evaluation could result in changes in the labeling that EPA requires on cars' window stickers and in consumer information it offers on its website, said Grundler.

That might help address this requestor's concerns if you're allowed to say it. Sorry I couldn't be of more assistance. Good luck!

Jennifer

From: Good, David
Sent: Friday, August 09, 2013 4:59 PM
To: France, Jennifer
Subject: FW: Your EPA Inquiry - 2013 Volkswagen Jetta Hybrid [Jennifer do you have any further history on this one?]

Jennifer,

This looks like a tough one.

Do you have any additional info about **Ex. 6** vehicle? It looks like there was a previous message (which I'm missing) before he requested the name of the top person in charge.

Thanks

Dave

From: Jennifer France [mailto:France.Jennifer@epamail.epa.gov] **On Behalf Of** OTAQ@epa.gov
Sent: Friday, August 09, 2013 4:00 PM
To: Good, David
Cc: Wehrly, Linc
Subject: Your EPA Inquiry - 2013 Volkswagen Jetta Hybrid

Please note: we are cc'ing the Group Managers so that they are aware of the extra workload being assigned to staff.

Time Sensitive

Can you answer this person's question please? If so, please respond directly to the inquirer (with the original message intact) at **Ex. 6** --- and please cc "otaq@epa.gov" so that I can close it out on our end.

We commit to responding to inquiries within **5** business days -- that will be **August 16th** for this one. Thank you!

Tony Roberts ---08/09/2013 09:07:36 AM---Public Information Services Team U.S. EPA

From: Tony Roberts **Ex. 6**
To: OTAQ@EPA
Date: 08/09/2013 09:07 AM
Subject: Re: Your EPA Inquiry - 2013 Volkswagen Jetta Hybrid

Public Information Services Team
U.S. EPA
Office of Transportation and Air Quality
2000 Traverwood Drive
Ann Arbor, MI 48105-2195
Dear OTAQ@epa.gov,
Hello! I hope you people realize by what you report to the consumer has an everlasting effect on the consumer. If you do your job properly than the public can estimate their gas mileage based on your honest findings. Remember one thing gasoline and oil have put our great country the United States of America in a depression not recession like the politicians would like everyone to believe . We are far out of the deep hole that the politicians are trying to convince the public that we are out of. Also tell me which politician ever addressed the high cost, the burden of gasoline and oil that has emptied our pockets on the poor and middle class in this country? In reply to your letter I'm experiencing mileage that is exceptionally much lower than estimates of EPA or Volkswagen mileage that is listed on the window sticker 42/45/48. **Try 30.1 averages** which are unacceptable….. You state the fuel economy ratings is to provide consumers with estimates to use in comparing the gas mileage of different vehicles which I did and I could have leased or purchased a NON Hybrid for the same mileage car at a much lower price then I'm getting at this time from this hybrid. You also state it is not meant as a guarantee of the gas mileage each driver will achieve. Since no test can simulate all the possible conditions that affect fuel economy, such as climate, driver behavior, road condition, and car care habits, your actual mileage will always vary

some from the estimates. **What do we need you people for then?** I know because after owning over 22 new cars your estimates are terrible but never have I owned a car or truck that is over 15 miles to the gallon off! You say controlled repeatable laboratory tests but this sounds unrealistic for the common consumer. You state fuel economy of new cars and trucks improve with mileage up to approximately 20,000 miles----it especially improves in the first 1,000-2,000 miles. In addition, the nature of current hybrid technology -- the addition of a battery as a second source of on-board power, sophisticated control systems, and sometimes a smaller engine -- makes a hybrid's fuel economy more sensitive to certain factors, such as colder weather and air conditioning use. **Can you tell me where it stated all this on the window sticker?** We are behind at least 50 years on this technology and you know the people that kept us behind! Remember this is our second Hybrid and we have friends that own hybrids also. **We drive to conserve and save money not race. We want to enjoy our lives not pay through the nose for everything we need.** Please don't tell me where to go to improve on gas mileage when I'm 58 years old and been driving since I was 15 years old. I'm that jack of all trades and have knowledge to what is going on in our world. Yes, I know how to save and this car with your ratings on it is way off base. I can't afford this car at the mileage I'm not getting as stated not being even close to your so called findings. **Yes, I'm not satisfied with false information that is not consistent with a majority of the consumers use of a vehicle especially one that you people have been connected to.**
You still have not given me the person in charge or an address to write too. If you people have any creditability left I would like my reply ASAP!
Very concerned and dissatisfied with what is going on,

Ex. 6

Ex. 6

From: "OTAQ@epa.gov" <OTAQ@epa.gov>
To: Ex. 6
Sent: Thursday, August 8, 2013 2:40 PM
Subject: Your EPA Inquiry - 2013 Volkswagen Jetta Hybrid

Dear **Ex. 6**

Thank you for your inquiry. Vehicle manufacturers test their own vehicles following EPA's test procedures—usually pre-production prototypes—and report the results to EPA. EPA reviews the results and confirms about 10-15 percent of them through our own tests at the National Vehicle and Fuel Emissions Laboratory (www.epa.gov/nvfel/). If you are experiencing gas milage that is lower than the fuel economy estimate on the window sticker, please keep in mind that the purpose of the fuel economy ratings is to provide consumers with estimates to use in comparing the gas mileage of different vehicles. It is not meant as a guarantee of the gas mileage each driver will achieve. Since no test can simulate all the possible conditions that affect fuel economy, such as climate, driver behavior, road condition, and car care habits, your actual mileage will always vary some from the estimates.

Fuel economy is measured under controlled conditions in a laboratory using a standardized test procedure specified by federal law. The fuel economy tests are based on a detailed driving cycle (each car is driven in exactly the same way, for exactly the same distance, with the same second-by-second vehicle speeds, to the maximum extent possible). The tests also are conducted under controlled conditions, using gasoline or diesel fuel that meet very detailed specifications. The goal of the laboratory testing is to control as many of the factors that affect fuel economy as possible, to the maximum degree that it is feasible to do so.

It is essential that EPA's fuel economy estimates continue to be derived from controlled, repeatable laboratory tests to enable a standardized or "level playing field," comparison between all vehicle models. Although EPA's fuel economy tests are designed to reflect typical driving conditions and driver behavior, several factors can significantly affect how many miles per gallon (mpg) your car gets: how and where

you drive; vehicle condition and maintenance; fuel variations; vehicle variations; and engine break-in -- all of which are described on the following Web site: www.fueleconomy.gov/feg/factors.shtml. Because some vehicles are more sensitive to these factors than others, the impact of the changes will vary from vehicle to vehicle. Since your car is new, please keep in mind that the fuel economy of new cars and trucks improves with mileage up to approximately 20,000 miles----it especially improves in the first 1,000-2,000 miles. In addition, the nature of current hybrid technology -- the addition of a battery as a second source of on-board power, sophisticated control systems, and sometimes a smaller engine -- makes a hybrid's fuel economy more sensitive to certain factors, such as colder weather and air conditioning use.

Although EPA sets emission standards for pollutants that vehicle manufacturers have to meet, we do not set fuel economy standards for the vehicles currently on the market. Therefore, even if a vehicle does not achieve the EPA fuel economy rating, the manufacturers are not required to re-test or change the car for that specific model year. However, if a significant number of specific vehicle complaints are received, EPA has the option of performing confirmatory tests for the vehicle the following model year.

To find out what you can do to improve the fuel economy of your car, please visit the following web site: www.fueleconomy.gov/feg/drive.shtml. Driving efficiently and keeping your car in shape will make a difference. If your fuel economy is excessively low, your vehicle may need to be serviced or repaired. You may want to contact your dealer and ask them to check your vehicle and to determine that there are no outstanding defect reports or service bulletins which may affect fuel economy. The following are some of the diagnostic checks a mechanic will typically conduct for poor mpg:

- Perform "On-Board Diagnostic System Check" for diagnostic trouble codes (sensors or actuators which may be malfunctioning)
- Check for dragging brakes
- Check transmission shift patterns for slipping, use of all gears, lock-up operation
- Check ignition timing
- Check owner's driving habits including A/C usage, hard accelerations, carrying heavy loads
- Check emission control system
- Check vacuum hoses for leaks, kinks, proper routing
- Check tire pressure
- Check fuel type, quality, and alcohol content
- Check fuel pressure and fuel system for leaks
- Check air cleaner element
- Check coolant level
- Check ignition system for wet plugs, cracks, wear, improper gap, burned electrodes, or heavy deposits, cracking or improperly connected ignition wires
- Check for proper calibration of speedometer
- In extreme cases, there may be engine problems such as poor compression or faulty fuel injectors

If you are not satisfied with the outcome from the dealership, you can take your case to the Service Representative; the contact information should be listed in the owner's manual. Be sure to document your observations thoroughly.

We hope this information is helpful. Thank you for contacting the Office of Transportation and Air Quality.

****

Public Information Services Team
U.S. EPA
Office of Transportation and Air Quality
2000 Traverwood Drive

Ann Arbor, MI 48105-2195

From: Ex. 6
To: OTAQ@EPA
Date: 08/03/2013 10:47 AM
Subject: Your EPA Inquiry - (214104749) Ex. 6 - 2013 Volkswagen Jetta Hybrid - OTAQ Web

Recipient
otaq@epa.gov
UserWord
apple
Word
apple
comments
I want the name of the top person in charge of testing these vehicles for mileage per gallon of gas?
email
Ex. 6
name
Ex. 6
org

ssubject
2013 Volkswagen Jetta Hybrid

WARNING NOTICE
This electronic mail originated from a federal government computer system of the United States Environmental Protection Agency (EPA). Unauthorized access or use of this EPA system may subject violators to criminal, civil and/or administrative action. For official purposes, law enforcement and other authorized personnel may monitor, record, read, copy and disclose all information which an EPA system processes. Any person's access or use, authorized and unauthorized, of this EPA system to send electronic mail constitutes consent to these terms.

To: richard.thomas@vw.com[richard.thomas@vw.com]
From: Good, David
Sent: Wed 8/14/2013 7:53:56 PM
Subject: FW: Your EPA Inquiry - 2013 Volkswagen Jetta Hybrid

Richard,

I called **Ex. 6** and talked to him for quite a while. He was very pleasant to talk to---but is unhappy with his mileage. He gets 31.6 on the highway. He said he calculated it manually and also relies on the short term mileage value displayed on the instrument panel. He says you can't reset the long term mileage display on the instrument panel.

He said he received a coupon for $500 from the President of VW, then purchased his vehicle, then he wrote to the President of VW to complain about his mileage. He thinks that the battery is undersized (the engine seems to come on more than it should) but drives moderately. He hasn't operated the air conditioner very much this summer. He said he has to push a button to get the vehicle to go into the E mode (economy mode) every time he drives the car.

The VIN is **Ex. 6**

Please have someone contact him and see if there is something you can do to improve his mileage.

Thanks

From: Jennifer France [mailto:France.Jennifer@epamail.epa.gov] **On Behalf Of** OTAQ@epa.gov
Sent: Friday, August 09, 2013 4:00 PM
To: Good, David
Cc: Wehrly, Linc
Subject: Your EPA Inquiry - 2013 Volkswagen Jetta Hybrid

Please note: we are cc'ing the Group Managers so that they are aware of the extra workload being assigned to staff.

Time Sensitive

Can you answer this person's question please? If so, please respond directly to the inquirer (with the original message intact) at Ex. 6 -- and please cc "otaq@epa.gov" so that I can close it out on our end.

We commit to responding to inquiries within **5** business days -- that will be **August 16th** for this one. Thank you!

Tony Roberts ---08/09/2013 09:07:36 AM---Public Information Services Team U.S. EPA

From: Tony Roberts Ex. 6
To: OTAQ@EPA
Date: 08/09/2013 09:07 AM
Subject: Re: Your EPA Inquiry - 2013 Volkswagen Jetta Hybrid

Public Information Services Team
U.S. EPA
Office of Transportation and Air Quality
2000 Traverwood Drive
Ann Arbor, MI 48105-2195
Dear OTAQ@epa.gov,
Hello! I hope you people realize by what you report to the consumer has an everlasting effect on the consumer. If you do your job properly than the public can estimate their gas mileage based on your honest findings. Remember one thing gasoline and oil have put our great country the United States of America in a depression not recession like the politicians would like everyone to believe . We are far out of the deep hole that the politicians are trying to convince the public that we are out of. Also tell me which politician ever addressed the high cost, the burden of gasoline and oil that has emptied our pockets on the poor and middle class in this country? In reply to your letter I'm experiencing mileage that is exceptionally much lower than estimates of EPA or Volkswagen mileage that is listed on the window sticker 42/45/48. **Try 30.1 averages** which are unacceptable….. You state the fuel economy ratings is to provide consumers with estimates to use in comparing the gas mileage of different vehicles which I did and I could have leased or purchased a NON Hybrid for the same mileage car at a much lower price then I'm getting at this time from this hybrid. You also state it is not meant as a guarantee of the gas mileage each driver will achieve. Since no test can simulate all the possible conditions that affect fuel economy, such as climate, driver behavior, road condition, and car care habits, your actual mileage will always vary some from the estimates. **What do we need you people for then?** I know because after owning over 22 new cars your estimates are terrible but never have I owned a car or truck that is over 15 miles to the gallon off! You say controlled repeatable laboratory tests but this sounds unrealistic for the common consumer. You state fuel economy of new cars and trucks improve with mileage up to approximately 20,000 miles----it especially improves in the first 1,000-2,000 miles. In addition, the nature of current hybrid technology -- the addition of a battery as a second source of on-board power, sophisticated control systems, and sometimes a smaller engine -- makes a hybrid's fuel economy more sensitive to certain factors, such as colder weather and air conditioning use. **Can you tell me where it stated all this on the window sticker?** We are behind at least 50 years on this technology and you know the people that kept us behind! Remember this is our second Hybrid and we have friends that own hybrids also. **We drive to conserve and save money not race. We want to enjoy our lives not pay through the nose for everything we need.** Please don't tell me where to go to improve on gas mileage when I'm 58 years old and been driving since I was 15 years old. I'm that jack of all trades and have knowledge to what is going on in our world. Yes, I know how to save and this car with your ratings on it is way off base. I can't afford

this car at the mileage I'm not getting as stated not being even close to your so called findings. **Yes, I'm not satisfied with false information that is not consistent with a majority of the consumers use of a vehicle especially one that you people have been connected to.**
You still have not given me the person in charge or an address to write too. If you people have any creditability left I would like my reply ASAP!
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- Check tire pressure
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- Check coolant level
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Public Information Services Team
U.S. EPA
Office of Transportation and Air Quality
2000 Traverwood Drive
Ann Arbor, MI 48105-2195

From: **Ex. 6**
To: OTAQ@EPA
Date: 08/03/2013 10:47 AM
Subject: Your EPA Inquiry - (214104749) **Ex. 6** - 2013 Volkswagen Jetta Hybrid - OTAQ Web

Recipient
otaq@epa.gov

UserWord
apple
Word
apple
comments
I want the name of the top person in charge of testing these vehicles for mileage per gallon of gas?
email
Ex. 6
name
Ex. 6
org

ssubject
2013 Volkswagen Jetta Hybrid

WARNING NOTICE
This electronic mail originated from a federal government computer system of the United States Environmental Protection Agency (EPA). Unauthorized access or use of this EPA system may subject violators to criminal, civil and/or administrative action. For official purposes, law enforcement and other authorized personnel may monitor, record, read, copy and disclose all information which an EPA system processes. Any person's access or use, authorized and unauthorized, of this EPA system to send electronic mail constitutes consent to these terms.

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]
From: Giles, Michael (EEO)
Sent: Thur 8/15/2013 2:05:09 PM
Subject: PHEV Test XML Example requested

Hello Jim or Bob,

I am updating our test information database, and would like to add the necessary data fields to handle PHEV information in the future. I am using the schema as a reference, but actual data sets (if any are available) would help me wrap my head around the design.

If available to share, could you send us a small selection of example test XML data sets, possibly covering various modes (FTP, US06, sustaining mode, depleting mode)?

Anything you can share would be greatly appreciated.

Thanks,

Mike

Michael Giles

Emissions Certification Engineer

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI, 48326

Phone: 248 754 4229

Fax: 248 754 4207

mailto:michael.giles@vw.com

http://www.vw.com

To: Petersen, Pete[petersen.pete@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Rodgers, William (EEO)
Sent: Fri 8/16/2013 12:51:03 PM
Subject: Manufacturer Code VGA - user authorizations
VGA Elect Signature Agreements.pdf
VW Group Verify All Manuf Codes user-info-20130507.xls

Hello Pete,

We are submitting the necessary User information and Electronic Signature forms to initiate 12 Verify user authorizations for the newly created Manuf. Code VGA. There's not a big rush on this since we are likely a month or more away from these new users requiring the use of this manufacturer code (beginning with 2015 model year). Hard copies have been sent to you via FEDEX. Please let me know if there are any questions.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

3. I agree to maintain an electronic mail account; if any e-mail sent to me by U.S. EPA is returned as undeliverable, I will explain this occurrence when requested by U.S. EPA. I understand that I will be informed through this e-mail address whenever my user identification or password has been modified.

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12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006792

Signature: Michael Hennard

Printed Name: Michael Hennard

Title: Manager - Emissions Defect Reporting

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: mike.hennard@vw.com

Telephone Number: 248-754-4202 Date: 06-27-2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006793

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

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13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006794

Signature: Tobias Glas

Printed Name: Tobias Glas

Title: In Use Emissions Compliance Specialist

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: tobias.glas@vw.com

Telephone Number: 248-754-4211 Date: 06/27/13

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006795

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a Verify Submitter

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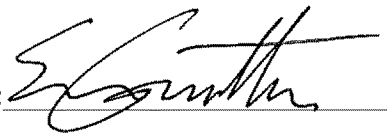
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13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006796

Signature: 

Printed Name: Eric Guenther

Title: Emissions Defect Reporting Engineer

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: eric.guenther@vw.com

Telephone Number: 248-754-5943 Date: 6-27-13

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006797

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

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VW FOIA, EPA 06/20/2017 2017-FFP_006798

Signature: Dennis Reineke

Printed Name: Dennis Reineke

Title: Certification Specialist

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: dennis.reineke@vw.com

Telephone Number: 248-754-4215 Date: 6/27/13

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006799

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

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VW FOIA, EPA 06/20/2017 2017-FFP_006800

Signature: 

Printed Name: Greg Allen

Title: Certification Analyst

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: gregory.allen@vw.com

Telephone Number: 248-754-4209 Date: 6/27/2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006801

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
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VW FOIA, EPA 06/20/2017 2017-FFP_006802

Signature: Michael T. Giles

Printed Name: Michael T. Giles

Title: Certification Engineer

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: michael.giles@vw.com

Telephone Number: 248-754-4229 Date:

CDX User ID: Ex. 6

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

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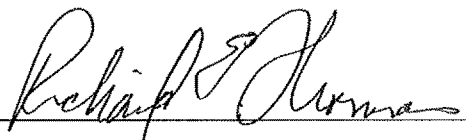
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VW FOIA, EPA 06/20/2017 2017-FFP_006804

Signature: 

Printed Name: Richard Thomas

Title: Certification Engineer

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: richard.thomas@vw.com

Telephone Number: 248-754-4213 Date:

CDX User ID: Ex. 6

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

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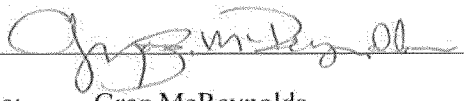
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13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006806

Signature: 

Printed Name: Greg McReynolds

Title: Emissions Defect Reporting Engineer

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: Gregory.McReynolds@vw.com

Telephone Number: 248-754-4203 Date:

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006807

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

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10. I agree to report, within 24 hours of discovery, any evidence of a discrepancy between an electronic document I have signed and submitted and what the CDX has received from me by contacting the CDX Help Desk.

11. I agree to notify U.S. EPA if I cease to represent the regulated entity specified below, by sending an e-mail message to verify@epa.gov with "Verify Account Termination" in the subject line.

12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006808

Signature: Suanne K. Thomas

Printed Name: Suanne Thomas

Title: Regulatory Engineer

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: suanne.thomas@vw.com

Telephone Number: 248-754-4206 Date: 27. June. 2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006809

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

3. I agree to maintain an electronic mail account; if any e-mail sent to me by U.S. EPA is returned as undeliverable, I will explain this occurrence when requested by U.S. EPA. I understand that I will be informed through this e-mail address whenever my user identification or password has been modified.

4. I understand that CDX reports the last date my user identification and password were used immediately after successfully logging into CDX.

5. I understand that whenever I electronically sign and submit an electronic document to the CDX, I will receive an e-mail message at my registered e-mail address as an "out-of-band" receipt. This e-mail message will inform me that a submission has been made to CDX from my user account and will contain instructions to view information regarding the submission in my CDX Inbox.

6. I understand that I will receive an e-mail message in my CDX inbox with a link to my encrypted, electronically signed copy of my submission as an "in-band" receipt.

7. I agree to review the acknowledgements and copies of documents that I electronically sign and submit to the US EPA's CDX.

8. I agree that if I receive an in-band or out-of-band receipt for a submission that I do not believe that I submitted, I will notify the CDX Help Desk as soon as possible, but no later than 24 hours, after receipt.

9. I agree to contact the CDX Help Desk if I do not receive a receipt either by in-band or out-of-band message within 5 business days for any electronically signed submission using my credentials.

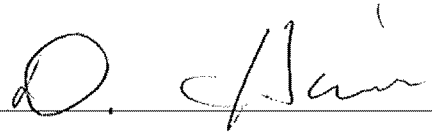
10. I agree to report, within 24 hours of discovery, any evidence of a discrepancy between an electronic document I have signed and submitted and what the CDX has received from me by contacting the CDX Help Desk.

11. I agree to notify U.S. EPA if I cease to represent the regulated entity specified below, by sending an e-mail message to verify@epa.gov with "Verify Account Termination" in the subject line.

12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006810

Signature: 

Printed Name: Dale Harris

Title: Certification Specialist

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address dale.harris@vw.com

Telephone Number: 248-754-4218 Date: 6/28/2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006811

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a
Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

3. I agree to maintain an electronic mail account; if any e-mail sent to me by U.S. EPA is returned as undeliverable, I will explain this occurrence when requested by U.S. EPA. I understand that I will be informed through this e-mail address whenever my user identification or password has been modified.

4. I understand that CDX reports the last date my user identification and password were used immediately after successfully logging into CDX.

5. I understand that whenever I electronically sign and submit an electronic document to the CDX, I will receive an e-mail message at my registered e-mail address as an "out-of-band" receipt. This e-mail message will inform me that a submission has been made to CDX from my user account and will contain instructions to view information regarding the submission in my CDX Inbox.

6. I understand that I will receive an e-mail message in my CDX inbox with a link to my encrypted, electronically signed copy of my submission as an "in-band" receipt.

7. I agree to review the acknowledgements and copies of documents that I electronically sign and submit to the US EPA's CDX.

8. I agree that if I receive an in-band or out-of-band receipt for a submission that I do not believe that I submitted, I will notify the CDX Help Desk as soon as possible, but no later than 24 hours, after receipt.

9. I agree to contact the CDX Help Desk if I do not receive a receipt either by in-band or out-of-band message within 5 business days for any electronically signed submission using my credentials.

10. I agree to report, within 24 hours of discovery, any evidence of a discrepancy between an electronic document I have signed and submitted and what the CDX has received from me by contacting the CDX Help Desk.

11. I agree to notify U.S. EPA if I cease to represent the regulated entity specified below, by sending an e-mail message to verify@epa.gov with "Verify Account Termination" in the subject line.

12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

VW FOIA, EPA 06/20/2017 2017-FFP_006812

Signature: Leonard N. Kata

Printed Name: Leonard Kata

Title: Certification Manager

Company: Volkswagen Group of America, Inc.

Address: 3800 Hamlin Road

City, State, Zip: Auburn Hills, MI, 48326

E-mail Address: leonard.kata@vw.com

Telephone Number: 248-754-4204 Date: 06/28/2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006813

EPA United States Environmental Protection Agency

Electronic Signature Agreement (ESA)
To be signed and submitted by a Verify Submitter

1. I agree to protect the electronic signature credential, consisting of my Central Data Exchange (CDX) user identification and password, from use by anyone except me. Specifically, I agree to maintain the secrecy of the password; I will not divulge or delegate my user name and password to any other individual; I will not store my password in an unprotected location; and I will not allow my password to be written into computer scripts to achieve automated login.

2. I agree that if I have any reason to believe that the security of my User ID or Password has been compromised I will inform U.S. EPA by calling the CDX Help Desk at 1-888-890-1995 as soon as possible, but no later than 24 hours after I learn of the problem.

3. I agree to maintain an electronic mail account; if any e-mail sent to me by U.S. EPA is returned as undeliverable, I will explain this occurrence when requested by U.S. EPA. I understand that I will be informed through this e-mail address whenever my user identification or password has been modified.

4. I understand that CDX reports the last date my user identification and password were used immediately after successfully logging into CDX.

5. I understand that whenever I electronically sign and submit an electronic document to the CDX, I will receive an e-mail message at my registered e-mail address as an "out-of-band" receipt. This e-mail message will inform me that a submission has been made to CDX from my user account and will contain instructions to view information regarding the submission in my CDX Inbox.

6. I understand that I will receive an e-mail message in my CDX Inbox with a link to my encrypted, electronically signed copy of my submission as an "in-band" receipt.

7. I agree to review the acknowledgements and copies of documents that I electronically sign and submit to the US EPA's CDX.

8. I agree that if I receive an in-band or out-of-band receipt for a submission that I do not believe that I submitted, I will notify the CDX Help Desk as soon as possible, but no later than 24 hours, after receipt.

9. I agree to contact the CDX Help Desk if I do not receive a receipt either by in-band or out-of-band message within 5 business days for any electronically signed submission using my credentials.

10. I agree to report, within 24 hours of discovery, any evidence of a discrepancy between an electronic document I have signed and submitted and what the CDX has received from me by contacting the CDX Help Desk.

11. I agree to notify U.S. EPA if I cease to represent the regulated entity specified below, by sending an e-mail message to verify@epa.gov with "Verify Account Termination" in the subject line.

12. I agree that I will be held legally bound, obligated, and responsible for any submittal made through my user account using the Verify System, as though I were making such a submittal in hardcopy form with my handwritten signature as certification.

13. I agree to retain a copy of this signed agreement as long as I continue to represent the regulated entity specified above as signatory of the company's electronic submissions.

Signature: Nigel Bailey

Printed Name: Nigel Bailey

Title: Engineer – Legislation & Certification

Company: Bentley Motors Limited.

Address: Pyms Lane

City, State, Zip: Crewe, Cheshire, CW1 3PL, United Kingdom

E-mail Address: Nigel.bailey@bentley.co.uk

Telephone Number: +44 1270 653327 Date: 15th July 2013

CDX User ID: Ex. 6

VW FOIA, EPA 06/20/2017 2017-FFP_006815

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): VWX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Eric
Last Name	Guenther
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	eric.guenther@vw.com
Phone Number	248-754-5943

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dale.harris@vw.com
Phone Number	248-754-4218

Registrant 12

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 13	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Registrant 13

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): ADX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Eric
Last Name	Guenther
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	eric.guenther@vw.com
Phone Number	248-754-5943

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 8

the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 12

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 13	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Registrant 13

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

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The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): BEX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 7

the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12

Registrant 12

Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

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The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): NLX

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	
First name	
Last Name	
Suffix (Jr/Sr/III/IV)	
Organization Name	
Mailing Address 1	
Mailing Address 2	
City	
State	
Zip/Postal Code	
Country	
E-mail	
Phone Number	

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12

Registrant 12

Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

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The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

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Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): BGT

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	
First name	
Last Name	
Suffix (Jr/Sr/III/IV)	
Organization Name	
Mailing Address 1	
Mailing Address 2	
City	
State	
Zip/Postal Code	
Country	
E-mail	
Phone Number	

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 7

the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	
Phone Number	248-754-

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12

Registrant 12

Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Contact Information for Users of EPA Verify Data Submission System

Please send the signed user authorization letter along with this user information form by US mail or a package delivery service to that address at right. To prevent delays in service, this user information spreadsheet form should **also** be sent as an electronic file by e-mail to **verify@epa.gov**.

The user authorization letter should be on your company's letterhead and signed by the company approving official. The letter must include the 3-character manufacturer code assigned to your company by EPA and must list all users who are authorized to submit data for this manufacturer code.

If space for additional registrants is needed below, copy and paste the tables as needed.

For additional information, see http://www.epa.gov/verify/index.htm

Verify Team
OAR/OTAQ/CISD
US EPA, NVFEL
2000 Traverwood Drive
Ann Arbor, MI 48105

EPA Manufacturer Code (3-character mfr code used in engine family & test group names): **VGA**

Date:

Registrant 1	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	William
Last Name	Rodgers
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	william.rodgers@vw.com
Phone Number	248-754-4219

Registrant 1

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 2	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Tobias
Last Name	Glas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	tobias.glas@vw.com
Phone Number	248-754-4211

Registrant 2

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 3	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dennis
Last Name	Reineke
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dennis.reineke@vw.com
Phone Number	248-754-4215

Registrant 3

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 4	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Richard
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	richard.thomas@vw.com
Phone Number	248-754-4213

Registrant 4

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 5	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonard
Last Name	Kata
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonard.kata@vw.com
Phone Number	248-754-4204

Registrant 5

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 6	
Prefix (Dr./Mr./Mrs./Ms)	Ms.
First name	Suanne
Last Name	Thomas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	suanne.thomas@vw.com
Phone Number	248-754-4206

Registrant 6

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 7	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Eric
Last Name	Guenther
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	eric.guenther@vw.com
Phone Number	248-754-5943

Registrant 7

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 8	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Giles
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	michael.giles@vw.com
Phone Number	248 754-4229

Registrant 8

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	x
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 9	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Michael
Last Name	Hennard
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	mike.hennard@vw.com
Phone Number	248-754-4202

Registrant 9

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 10	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Gregory
Last Name	McReynolds
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.mcreynolds@vw.com
Phone Number	248-754-4203

Registrant 10

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 11	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Leonardo
Last Name	Freitas
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	leonardo.freitas@vw.com
Phone Number	248-754-4205

Registrant 11

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 12	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Dale
Last Name	Harris
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	dale.harris@vw.com
Phone Number	248-754-4281

Registrant 12

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

Registrant 13	
Prefix (Dr./Mr./Mrs./Ms)	Mr.
First name	Greg
Last Name	Allen
Suffix (Jr/Sr/III/IV)	
Organization Name	Volkswagen Group of America, Inc.
Mailing Address 1	3800 Hamlin Road
Mailing Address 2	EEO
City	Auburn Hills
State	MI
Zip/Postal Code	48326
Country	U.S.A.
E-mail	gregory.allen@vw.com
Phone Number	248-754-4209

Registrant 13

Place an X in the Authorized column for the modules the user is authorized to use.

Compliance Module	Authorized
Edit Manufacturer Information	
View Manufacturer Information	x
Heavy-Duty In-Use Testing	
Light-Duty Compliance	x
Locomotive Certification	
MC/ATV Certification	
Upload Compliance Documents	x

To: nick@ichikawa.tec.toyota.co.jp[nick@ichikawa.tec.toyota.co.jp]; stephan.redmann@bmvbs.bund.de[stephan.redmann@bmvbs.bund.de]; seiler@vda.de[seiler@vda.de]; giovanni.durbano@bafu.admin.ch[giovanni.durbano@bafu.admin.ch]
Cc: Nikolaus.Steininger@ec.europa.eu[Nikolaus.Steininger@ec.europa.eu]; ARijnders@rdw.nl[ARijnders@rdw.nl]; Konrad.Kolesa@AUDI.DE[Konrad.Kolesa@AUDI.DE]; william.coleman@volkswagen.de[william.coleman@volkswagen.de]; serge.dubuc@t-online.de[serge.dubuc@t-online.de]; iddo@sidekickprojects.nl[iddo@sidekickprojects.nl]; Guenther, Mark (M.T.)[mguenthe@ford.com]; donald.nagy@gm.com[donald.nagy@gm.com]; Hosier, Caro (C.S.)[chosier@ford.com]; Smith, Anthony (A.C.)[asmit685@ford.com]; MKY@chrysler.com[MKY@chrysler.com]; steve.baldus@gm.com[steve.baldus@gm.com]; Snyder, Jim[Snyder.Jim@epa.gov]; Olechiw, Michael[olechiw.michael@epa.gov]; daniel.scherret@de.opel.com[daniel.scherret@de.opel.com]
From: Guenther, Mark (M.T.)
Sent: Mon 8/19/2013 12:20:37 PM
Subject: Recommendation to Include On-Board Anemometry for WLTP
On-Board Anemometry_WLTP.pdf
WLTP On Board Anemometry.doc

Colleagues,

Please find attached a joint recommendation from EPA, GM, Ford, and Chrysler to include On-Board Anemometry as an option for the WLTP GTR. This coastdown technique has been used extensively for North American Certification over the past 20 years, and it offers some advantages over other coastdown techniques (as detailed in the letter). In addition to the signed document, I also included an unsigned copy of the text, because repeated scanning of the document to obtain the necessary signatures appears to have degraded some of the text. Please feel free to contact any of the authors if you have any questions. Thank you for your consideration.

Mark T. Guenther
Ford Motor Company, VH&C
Supervisor / Technical Expert
Coastdown & Test Technology
Ph: (313) 594-2054
e-mail: mguenthe@ford.com

August 16, 2013

To: Noriyuki Ichikawa, WLTP Technical Secretary / Toyota
Giovanni D'Urbano, WLTP DTP Chairman / Switzerland
Stephan Redmann, LabProc ICE Chairman / Germany
Jacob Seiler, WLTP DTP Technical Secretary (VDA)

cc: Nikolaus Steininger
Andre Rijnders
Konrad Kolesa
Bill Coleman
Serge Dubuc
Iddo Riemersma

Subject: Recommendation to Include On-Board Anemometry as Option for WLTP Coastdown

We have been following the progression of the World Harmonized Light-duty vehicle Test Procedures (WLTP) and we appreciate the efforts to develop a common, global test procedure. With respect to coastdown procedures, we jointly recommend that the WLTP GTR include On-Board Anemometry as an option, up to an average wind speed of 10 meters/sec with gusts allowed up to 14 meters/sec.

The capability to make real-time corrections for wind speed and wind direction during the coastdown process, as specified in SAE J2263, has a number of benefits, including:

- Significantly increasing the "envelope" of allowable wind conditions for coastdown testing (at some test track locations, it is extremely difficult to meet the calm wind conditions required for the current European Coastdown Process).
- Improving data quality by normalizing coastdown results for wind effects, including both wind velocity and wind direction.
- Reducing variation associated with wind differences over the duration of a coastdown run and along the length of the coastdown track. Even with calm wind conditions, differences in wind speeds across the track and over time are likely to increase coastdown variability.

SAE J2263 ("Road Load Measurement Using Onboard Anemometry and Coastdown Techniques") was published in 1996 following a collaborative effort by auto manufacturers and US regulatory agencies to improve the coastdown process. Since that time, SAE J2263 has been used extensively to measure vehicle coastdown forces by EPA and a number of auto manufacturers. During a recent informal survey of OEMs that produce vehicles for the North American Market, it was estimated that more than half use J2263 as their primary coastdown technique. In addition, SAE J2263 is specifically mentioned in EPA's proposed Light Duty Test Procedures (Part 1066) as an allowable coastdown method.

In summary, we recommend that On-Board Anemometry be included as an option for the WLTP GTR. Please contact any of us if you have any questions.

Sincerely,

8/16/13
Mahmoud Yassine
Chrysler

8/16/2013
Michael Olechiw
Environmental Protection Agency

8/16/13
Mark Guenther
Ford Motor Company

8/19/2013
Don Nagy
General Motors

August 16, 2013

To: Noriyuki Ichikawa, WLTP Technical Secretary / Toyota
Giovanni D'Urbano, WLTP DTP Chairman / Switzerland
Stephan Redmann, LabProc ICE Chairman / Germany
Jacob Seiler, WLTP DTP Technical Secretary (VDA)

cc: Nikolaus Steininger
Andre Rijnders
Konrad Kolesa
Bill Coleman
Serge Dubuc
Iddo Riemersma

Subject: Recommendation to Include On-Board Anemometry as Option for WLTP Coastdown

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- Significantly increasing the "envelope" of allowable wind conditions for coastdown testing (at some test track locations, it is extremely difficult to meet the calm wind conditions required for the current European Coastdown Process).
- Improving data quality by normalizing coastdown results for wind effects, including both wind velocity and wind direction.
- Reducing variation associated with wind differences over the duration of a coastdown run and along the length of the coastdown track. Even with calm wind conditions, differences in wind speeds across the track and over time are likely to increase coastdown variability.

SAE J2263 ("Road Load Measurement Using Onboard Anemometry and Coastdown Techniques") was published in 1996 following a collaborative effort by auto manufacturers and US regulatory agencies to improve the coastdown process. Since that time, SAE J2263 has been used extensively to measure vehicle coastdown forces by EPA and a number of auto manufacturers. During a recent informal survey of OEMs that produce vehicles for the North American Market, it was estimated that more than half use J2263 as their primary coastdown technique. In addition, SAE J2263 is specifically mentioned in EPA's proposed Light Duty Test Procedures (Part 1066) as an allowable coastdown method.

In summary, we recommend that On-Board Anemometry be included as an option for the WLTP GTR. Please contact any of us if you have any questions.

Sincerely,

Mahmoud Yassine
Chrylsler

Michael Olechiw
Environmental Protection Agency

Mark Guenther
Ford Motor Company

Don Nagy
General Motors

EPA comm	VERIFY cc	Model Yr (Mfr Name	Division (t	Carline	Verify Mfr	Index (Mo	Eng Displ	# Cyl
		2014 Audi	Audi	A4	ADX	67	2.0	4
		2014 Audi	Audi	A4 quattro	ADX	64	2.0	4
		2014 Audi	Audi	A4 quattro	ADX	71	2.0	4
		2014 Audi	Audi	A5 Cabriol	ADX	68	2.0	4
		2014 Audi	Audi	A5 Cabriol	ADX	66	2.0	4
		2014 Audi	Audi	A5 quattro	ADX	65	2.0	4
		2014 Audi	Audi	A5 quattro	ADX	72	2.0	4
		2014 Audi	Audi	A6	ADX	69	2.0	4
		2014 Audi	Audi	A6 quattro	ADX	70	2.0	4
		2014 Audi	Audi	A6 quattro	ADX	54	3.0	6
Diesel;		2014 Audi	Audi	A6 quattro	ADX	15	3.0	6
Diesel;		2014 Audi	Audi	A7 quattro	ADX	16	3.0	6
		2014 Audi	Audi	A7 quattro	ADX	53	3.0	6
		2014 Audi	Audi	A8	ADX	51	3.0	6
		2014 Audi	Audi	A8	ADX	18	4.0	8
Diesel;		2014 Audi	Audi	A8L	ADX	1	3.0	6
		2014 Audi	Audi	A8L	ADX	52	3.0	6
		2014 Audi	Audi	A8L	ADX	17	4.0	8
		2014 Audi	Audi	A8L	ADX	61	6.3	12
		2014 Audi	Audi	allroad qu	ADX	63	2.0	4
		2014 Audi	Audi	Q5	ADX	62	2.0	4
		2014 Audi	Audi	Q5	ADX	60	3.0	6
Diesel;		2014 Audi	Audi	Q5	ADX	14	3.0	6
Hybrid;		2014 Audi	Audi	Q5 Hybrid	ADX	50	2.0	4
Diesel;		2014 Audi	Audi	Q7	ADX	24	3.0	6
		2014 Audi	Audi	Q7	ADX	36	3.0	6
		2014 Audi	Audi	R8	ADX	5	4.2	8
		2014 Audi	Audi	R8	ADX	9	4.2	8
		2014 Audi	Audi	R8	ADX	3	5.2	10
		2014 Audi	Audi	R8	ADX	7	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	4	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	8	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	2	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	6	5.2	10
		2014 Audi	Audi	RS5	ADX	28	4.2	8
		2014 Audi	Audi	RS5 Cabrio	ADX	29	4.2	8
		2014 Audi	Audi	RS7	ADX	22	4.0	8
		2014 Audi	Audi	S4	ADX	55	3.0	6
		2014 Audi	Audi	S4	ADX	58	3.0	6
		2014 Audi	Audi	S5	ADX	56	3.0	6
		2014 Audi	Audi	S5	ADX	59	3.0	6
		2014 Audi	Audi	S5 Cabriole	ADX	57	3.0	6
		2014 Audi	Audi	S6	ADX	21	4.0	8
		2014 Audi	Audi	S7	ADX	20	4.0	8

	2014	Audi	Audi	S8	ADX	19	4.0	8
	2014	Audi	Audi	SQ5	ADX	106	3.0	6
	2014	Audi	Audi	TT Coupe c	ADX	38	2.0	4
	2014	Audi	Audi	TT Roadste	ADX	39	2.0	4
	2014	Bentley	Bentley M	Continenta	BEX	26	4.0	8
	2014	Bentley	Bentley M	Continenta	BEX	13	6.0	12
	2014	Bentley	Bentley M	Continenta	BEX	12	6.0	12
	2014	Bentley	Bentley M	Continenta	BEX	25	4.0	8
	2014	Bentley	Bentley M	Continenta	BEX	11	6.0	12
	2014	Bentley	Bentley M	Flying Spur	BEX	10	6.0	12
	2014	Bentley	Bentley M	Mulsanne	BEX	109	6.8	8
	2014	Bugatti	Bugatti	Veyron	BGT	27	8.0	16
	2014	Lamborghi	Lamborghi	Aventador	NLX	92	6.5	12
	2014	Lamborghi	Lamborghi	Aventador	NLX	94	6.5	12
	2014	Lamborghi	Lamborghi	Aventador	NLX	93	6.5	12
	2014	Lamborghi	Lamborghi	Gallardo C	NLX	32	5.2	10
	2014	Lamborghi	Lamborghi	Gallardo C	NLX	34	5.2	10
	2014	Lamborghi	Lamborghi	Gallardo S	NLX	33	5.2	10
	2014	Lamborghi	Lamborghi	Gallardo S	NLX	35	5.2	10
Diesel;	2014	Volkswage	Volkswage	BEETLE	VWX	46	2.0	4
	2014	Volkswage	Volkswage	BEETLE	VWX	76	2.0	4
Diesel;	2014	Volkswage	Volkswage	BEETLE	VWX	48	2.0	4
	2014	Volkswage	Volkswage	BEETLE	VWX	99	2.5	5
	2014	Volkswage	Volkswage	BEETLE	VWX	102	2.5	5
Diesel;	2014	Volkswage	Volkswage	BEETLE CO	VWX	47	2.0	4
	2014	Volkswage	Volkswage	BEETLE CO	VWX	77	2.0	4
Diesel;	2014	Volkswage	Volkswage	BEETLE CO	VWX	49	2.0	4
	2014	Volkswage	Volkswage	BEETLE CO	VWX	100	2.5	5
	2014	Volkswage	Volkswage	CC	VWX	74	2.0	4
	2014	Volkswage	Volkswage	CC	VWX	75	2.0	4
	2014	Volkswage	Volkswage	CC 4MOTI	VWX	31	3.6	6
	2014	Volkswage	Volkswage	Eos	VWX	78	2.0	4
Diesel;	2014	Volkswage	Volkswage	GOLF	VWX	42	2.0	4
Diesel;	2014	Volkswage	Volkswage	GOLF	VWX	45	2.0	4
	2014	Volkswage	Volkswage	GOLF	VWX	98	2.5	5
	2014	Volkswage	Volkswage	GTI	VWX	107	2.0	4
	2014	Volkswage	Volkswage	GTI	VWX	108	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	88	1.8	4
	2014	Volkswage	Volkswage	Jetta	VWX	86	1.8	4
Diesel;	2014	Volkswage	Volkswage	Jetta	VWX	41	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	90	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	103	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	104	2.0	4
Diesel;	2014	Volkswage	Volkswage	Jetta	VWX	44	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	91	2.0	4

Hybrid;	2014	Volkswage	Volkswage	Jetta Hybri	VWX	105	1.4	4
Diesel;	2014	Volkswage	Volkswage	JETTA SPO	VWX	40	2.0	4
Diesel;	2014	Volkswage	Volkswage	JETTA SPO	VWX	43	2.0	4
	2014	Volkswage	Volkswage	JETTA SPO	VWX	97	2.5	5
	2014	Volkswage	Volkswage	JETTA SPO	VWX	101	2.5	5
	2014	Volkswage	Volkswage	Passat	VWX	89	1.8	4
	2014	Volkswage	Volkswage	Passat	VWX	87	1.8	4
Diesel;	2014	Volkswage	Volkswage	Passat	VWX	84	2.0	4
Diesel;	2014	Volkswage	Volkswage	Passat	VWX	85	2.0	4
	2014	Volkswage	Volkswage	Passat	VWX	95	2.5	5
	2014	Volkswage	Volkswage	Passat	VWX	96	2.5	5
	2014	Volkswage	Volkswage	Passat	VWX	30	3.6	6
	2014	Volkswage	Volkswage	TIGUAN	VWX	80	2.0	4
	2014	Volkswage	Volkswage	TIGUAN	VWX	81	2.0	4
	2014	Volkswage	Volkswage	TIGUAN 4M	VWX	79	2.0	4
Diesel;	2014	Volkswage	Volkswage	TOUAREG	VWX	23	3.0	6
	2014	Volkswage	Volkswage	TOUAREG	VWX	73	3.6	6
Hybrid;	2014	Volkswage	Volkswage	Touareg H	VWX	37	3.0	6

Trans as I	City FE (G	Hwy FE (C	Comb FE	Low'd City	Low'd HW	Low'd Cor	City Unad	Hwy Unad	Comb Una
Auto(AV-S	24	32	27				30.1192	44.4335	35.2258
Auto(S8)	20	29	24				25.8050	40.5698	30.8588
Manual(M	22	32	26				27.6240	43.9699	33.1736
Auto(AV-S	24	32	27				30.1192	44.4335	35.2258
Auto(S8)	20	29	24				25.8050	40.5698	30.8588
Auto(S8)	20	29	24				25.8050	40.5698	30.8588
Manual(M	22	32	26				27.6240	43.9699	33.1736
Auto(AV-S	25	33	28				31.4000	46.9000	36.8857
Auto(S8)	20	29	23				24.8000	40.5000	30.0404
Auto(S8)	18	27	22				23.1369	38.1000	28.1037
Auto(S8)	24	38	29				30.6987	52.4000	37.7304
Auto(S8)	24	38	29				30.6987	52.4000	37.7304
Auto(S8)	18	28	21				22.3364	37.2698	27.2497
Auto(S8)	18	28	21				22.3364	37.2698	27.2497
Auto(S8)	17	28	21				21.7885	38.4000	27.0553
Auto(S8)	24	36	28				29.9399	51.4000	36.8664
Auto(S8)	18	28	21				22.3364	37.2698	27.2497
Auto(S8)	16	26	19				19.8586	33.9000	24.4081
Auto(S8)	13	21	16				15.9000	25.7000	19.1935
Auto(S8)	20	27	23				25.2000	37.3000	29.5075
Auto(S8)	20	28	23				24.8000	38.6000	29.5548
Auto(S8)	18	26	21				22.8446	35.5000	27.2096
Auto(S8)	24	31	27				29.1832	43.5000	34.2568
Auto(S8)	24	30	26				30.4000	39.9000	34.0480
Auto(S8)	19	28	22				22.8000	39.1000	28.0649
Auto(S8)	16	22	18				19.4000	30.0000	23.0678
Auto(AM-S	14	23	17				16.4710	29.7396	20.6087
Manual(M	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S	13	22	16				15.4000	28.8067	19.4796
Manual(M	12	19	14				13.7000	23.3840	16.8379
Auto(AM-S	14	23	17				16.4710	29.7396	20.6087
Manual(M	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S	13	22	16				15.4000	28.8067	19.4796
Manual(M	12	19	14				13.7000	23.3840	16.8379
Auto(AM-S	16	23	18				19.1000	30.0000	22.8332
Auto(AM-S	16	22	18				19.2000	28.9000	22.6159
Auto(S8)	16	27	19				19.1000	35.3000	24.0710
Auto(AM-S	18	28	21				22.4000	35.8000	26.9372
Manual(M	17	26	20				20.0000	33.4000	24.4063
Auto(AM-S	18	28	21				22.4000	35.8000	26.9372
Manual(M	17	26	20				20.0000	33.4000	24.4063
Auto(AM-S	18	26	21				22.1000	34.7000	26.4165
Auto(AM-S	17	27	20				20.7158	35.0541	25.3890
Auto(AM-S	17	27	20				20.7158	35.0541	25.3890

Auto(S8)	15	26	19	19.0000	33.3000	23.5511
Auto(S8)	16	23	19	19.7468	32.4000	23.9570
Auto(AM-S	22	31	26	28.3321	42.1097	33.2237
Auto(AM-S	22	31	26	28.3321	42.1097	33.2237
Auto(S8)	15	24	18	19.0000	33.5000	23.5959
Auto(S8)	12	21	15	15.4000	28.3000	19.3741
Auto(S8)	12	20	15	14.4000	26.7000	18.1658
Auto(S8)	14	24	17	17.4000	30.8000	21.6358
Auto(S8)	12	20	15	14.4000	26.7000	18.1658
Auto(S8)	12	20	15	14.4000	26.7000	18.1658
Auto(S8)	11	18	13	12.9000	21.8000	15.8033
Auto(AM-S	8	15	10	10.0000	17.9000	12.4782
Auto(AM-S	11	18	13	12.6000	25.2000	16.2581
Auto(AM-S	11	17	13	12.5000	22.7000	15.6681
Auto(AM-S	10	16	12	11.5000	21.2000	14.4817
Auto(AM-S	13	20	16	16.1000	25.4000	19.2760
Manual(M	12	20	15	14.0000	24.0000	17.2308
Auto(AM-S	13	20	16	16.0000	25.4000	19.1970
Manual(M	12	20	14	13.0000	22.6000	16.0722
Auto(AM-S	29	39	32	37.3000	55.3000	43.7011
Auto(AM-S	24	30	26	29.1673	42.3326	33.9134
Manual(M	28	41	32	36.0825	58.0474	43.4875
Auto(S6)	22	29	25	27.3682	39.0016	31.6112
Manual(M	22	31	25	26.4371	42.9104	31.9580
Auto(AM-S	28	37	31	36.4000	51.9000	42.0514
Auto(AM-S	23	29	25	28.8646	40.8000	33.2404
Manual(M	28	41	32	36.0825	58.0474	43.4875
Auto(S6)	21	27	23	26.4827	37.7774	30.5996
Auto(AM-S	22	31	25	26.9760	42.4872	32.2790
Manual(M	21	32	25	25.7137	43.8700	31.5986
Auto(S6)	17	25	20	20.5000	33.5000	24.8373
Auto(AM-S	22	30	25	27.5000	41.5000	32.4219
Auto(AM-S	30	42	34	39.0952	59.2783	46.1691
Manual(M	30	42	34	38.7301	59.7524	46.0153
Auto(S6)	23	30	26	27.0790	41.9473	32.2178
Auto(AM-S	24	32	27	29.6000	42.9000	34.3990
Manual(M	21	31	25	25.7000	40.9000	30.8611
Auto(S6)	25	36	29	31.4506	49.1933	37.5441
Manual(M	26	36	30	32.3820	49.5230	38.3561
Auto(AM-S	30	42	34	39.0952	59.2783	46.1691
Auto(AM-S	24	32	27	29.5629	44.4634	34.8128
Auto(S6)	23	29	25	28.1000	41.4990	32.8768
Manual(M	24	34	28	28.8000	46.2000	34.6771
Manual(M	30	42	34	38.7301	59.7524	46.0153
Manual(M	23	33	26	28.2818	45.1635	34.0010

Auto(AM-S	42	48	45	57.5000	65.3000	60.7663
Auto(AM-S	29	39	33	37.6000	56.2000	44.1798
Manual(M	30	42	34	38.7301	59.7524	46.0153
Auto(S6)	23	30	26	27.0790	41.9473	32.2178
Manual(M	23	33	26	26.2086	44.0648	32.0537
Auto(S6)	24	34	28	29.9264	48.2897	36.1048
Manual(M	24	35	28	30.2365	48.2157	36.3333
Auto(AM-S	30	40	34	37.9000	56.8000	44.5744
Manual(M	31	43	35	38.2000	62.8000	46.3746
Auto(S6)	22	31	25	27.0521	40.8408	31.8984
Manual(M	22	32	26	26.1092	42.8028	31.6669
Auto(AM-S	20	28	23	23.9000	37.3000	28.5088
Auto(S6)	21	26	23	25.9873	36.0386	29.7169
Manual(M	18	26	21	21.7000	35.8000	26.3745
Auto(S6)	20	26	23	25.7719	36.0257	29.5577
Auto(S8)	20	29	23	24.1000	22.4000	23.3041
Auto(S8)	17	23	19	21.3000	31.6000	24.9612
Auto(S8)	20	24	21	25.1000	33.1000	28.1631

City Unrd	Hwy Unrd	Comb Unr	Guzzler?	Air Aspir I	Air Aspira	Trans	Trans Des	Trans, Otl	# Gears
23.5414	31.5409	26.5744		TC	Turbochar	SCV	Selectable		8
20.4020	28.9490	23.5279		TC	Turbochar	SA	Semi-Auto		8
22.2425	32.0861	25.8049		TC	Turbochar	M	Manual		6
23.5414	31.5409	26.5744		TC	Turbochar	SCV	Selectable		8
20.4020	28.9490	23.5279		TC	Turbochar	SA	Semi-Auto		8
20.4020	28.9490	23.5279		TC	Turbochar	SA	Semi-Auto		8
22.2425	32.0861	25.8049		TC	Turbochar	M	Manual		6
24.5044	32.5529	27.5721		TC	Turbochar	SCV	Selectable		8
19.6106	28.8603	22.9156		TC	Turbochar	SA	Semi-Auto		8
18.3949	27.2332	21.5408		SC	Supercha	SA	Semi-Auto		8
24.4094	38.0485	29.1042		TC	Turbochar	SA	Semi-Auto		8
24.4094	38.0485	29.1042		TC	Turbochar	SA	Semi-Auto		8
17.7150	27.5586	21.1077		SC	Supercha	SA	Semi-Auto		8
17.7150	27.5586	21.1077		SC	Supercha	SA	Semi-Auto		8
17.2616	28.4347	20.9695		TC	Turbochar	SA	Semi-Auto		8
23.8727	36.3252	28.2271		TC	Turbochar	SA	Semi-Auto		8
17.7150	27.5586	21.1077		SC	Supercha	SA	Semi-Auto		8
16.0273	25.8053	19.3219		TC	Turbochar	SA	Semi-Auto		8
13.1387	20.6025	15.6978	G	NA	Naturally A	SA	Semi-Auto		8
19.9584	26.6824	22.5112		TC	Turbochar	SA	Semi-Auto		8
19.6619	27.5771	22.5781		TC	Turbochar	SA	Semi-Auto		8
17.8443	25.5746	20.6536		SC	Supercha	SA	Semi-Auto		8
23.6266	31.3636	26.5783		TC	Turbochar	SA	Semi-Auto		8
24.0075	29.7936	26.3065		TC	Turbochar	SA	Semi-Auto		8
18.7400	27.6200	21.9099		TC	Turbochar	SA	Semi-Auto		8
15.5983	21.6157	17.8322		SC	Supercha	SA	Semi-Auto		8
13.5719	22.6008	16.5465	G	NA	Naturally A	AMS	Automatec		7
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6
12.9942	22.2057	15.9766	G	NA	Naturally A	AMS	Automatec		7
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6
13.5719	22.6008	16.5465	G	NA	Naturally A	AMS	Automatec		7
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6
12.9942	22.2057	15.9766	G	NA	Naturally A	AMS	Automatec		7
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6
15.7409	23.3075	18.4339		NA	Naturally A	AMS	Automatec		7
15.8793	22.1836	18.2078		NA	Naturally A	AMS	Automatec		7
15.5443	26.5981	19.1200		TC	Turbochar	SA	Semi-Auto		8
18.1170	27.5580	21.4190		SC	Supercha	AMS	Automatec		7
17.0438	26.0230	20.1767		SC	Supercha	M	Manual		6
18.1170	27.5580	21.4190		SC	Supercha	AMS	Automatec		7
17.0438	26.0230	20.1767		SC	Supercha	M	Manual		6
17.6699	25.9530	20.6333		SC	Supercha	AMS	Automatec		7
16.7439	26.8255	20.1520		TC	Turbochar	AMS	Automatec		7
16.7439	26.8255	20.1520		TC	Turbochar	AMS	Automatec		7

15.2801	25.5632	18.6574	TC	Turbochar¡SA	Semi-Auto	8
16.2518	22.7154	18.6384	SC	Supercha¡SA	Semi-Auto	8
22.3380	31.0856	25.5769	TC	Turbochar¡AMS	Automatec	6
22.3380	31.0856	25.5769	TC	Turbochar¡AMS	Automatec	6
15.0109	24.4645	18.1706	TC	Turbochar¡SA	Semi-Auto	8
12.4737	21.0866	15.2827 G	TC	Turbochar¡SA	Semi-Auto	8
12.0228	20.0478	14.6643 G	TC	Turbochar¡SA	Semi-Auto	8
14.0639	23.9773	17.2766 G	TC	Turbochar¡SA	Semi-Auto	8
12.0228	20.0478	14.6643 G	TC	Turbochar¡SA	Semi-Auto	8
12.0228	20.0478	14.6643 G	TC	Turbochar¡SA	Semi-Auto	8
10.5402	17.7129	12.8889 G	TC	Turbochar¡SA	Semi-Auto	8
8.4232	14.7698	10.4424 G	TC	Turbochar¡AMS	Automatec	7
10.6055	18.4729	13.1199 G	NA	Naturally ⁄AMS	Automatec	7
10.6353	16.9743	12.7836 G	NA	Naturally ⁄AMS	Automatec	7
9.7957	16.2453	11.9264 G	NA	Naturally ⁄AMS	Automatec	7
13.4655	19.7573	15.7180 G	NA	Naturally ⁄AMS	Automatec	6
12.0883	19.9831	14.7021 G	NA	Naturally ⁄M	Manual	6
13.3954	19.7741	15.6701 G	NA	Naturally ⁄AMS	Automatec	6
11.5388	19.5451	14.1465 G	NA	Naturally ⁄M	Manual	6
28.6469	38.8700	32.4925	TC	Turbochar¡AMS	Automatec	6
23.6914	29.5911	26.0264	TC	Turbochar¡AMS	Automatec	6
27.8088	40.6616	32.4203	TC	Turbochar¡M	Manual	6
22.2726	28.5657	24.7236	NA	Naturally ⁄SA	Semi-Auto	6
21.7373	30.6904	25.0221	NA	Naturally ⁄M	Manual	5
28.0188	36.6005	31.3238	TC	Turbochar¡AMS	Automatec	6
22.7003	28.5550	25.0076	TC	Turbochar¡AMS	Automatec	6
27.8088	40.6616	32.4203	TC	Turbochar¡M	Manual	6
21.2156	26.9734	23.4701	NA	Naturally ⁄SA	Semi-Auto	6
21.8712	31.0324	25.2218	TC	Turbochar¡AMS	Automatec	6
20.7932	31.7441	24.6143	TC	Turbochar¡M	Manual	6
16.9415	25.2190	19.8774	NA	Naturally ⁄SA	Semi-Auto	6
21.7634	30.1121	24.8658	TC	Turbochar¡AMS	Automatec	6
29.8913	41.5066	34.1978	TC	Turbochar¡AMS	Automatec	6
29.6183	41.8508	34.1040	TC	Turbochar¡M	Manual	6
23.0923	30.3667	25.8824	NA	Naturally ⁄SA	Semi-Auto	6
24.0930	32.3390	27.2159	TC	Turbochar¡AMS	Automatec	6
21.0437	30.6792	24.5074	TC	Turbochar¡M	Manual	6
25.2476	35.5136	29.0230	TC	Turbochar¡SA	Semi-Auto	6
25.8912	35.6271	29.5215	TC	Turbochar¡M	Manual	5
29.8913	41.5066	34.1978	TC	Turbochar¡AMS	Automatec	6
23.5751	31.8631	26.7004	TC	Turbochar¡AMS	Automatec	6
23.1009	29.1554	25.4822	NA	Naturally ⁄SA	Semi-Auto	6
24.3944	33.6309	27.8344	NA	Naturally ⁄M	Manual	5
29.6183	41.8508	34.1040	TC	Turbochar¡M	Manual	6
22.8967	32.6145	26.4421	TC	Turbochar¡M	Manual	6

42.0354	48.2310	44.6144	TC	Turbochar¡AMS	Automatec	7
28.8556	39.4682	32.8278	TC	Turbochar¡AMS	Automatec	6
29.6183	41.8508	34.1040	TC	Turbochar¡M	Manual	6
23.0923	30.3667	25.8824	NA	Naturally ASA	Semi-Auto	6
22.5184	33.2675	26.3496	NA	Naturally AM	Manual	5
24.0436	33.5272	27.5504	TC	Turbochar¡SA	Semi-Auto	6
24.4546	34.5968	28.1709	TC	Turbochar¡M	Manual	5
30.4633	40.2057	34.1916	TC	Turbochar¡AMS	Automatec	6
30.8024	42.6219	35.1943	TC	Turbochar¡M	Manual	6
22.1883	30.6704	25.3422	NA	Naturally ASA	Semi-Auto	6
21.9815	32.1245	25.6219	NA	Naturally AM	Manual	5
19.7174	27.8048	22.6868	NA	Naturally AAMS	Automatec	6
20.5496	25.7855	22.6161	TC	Turbochar¡SA	Semi-Auto	6
18.1488	26.2617	21.0791	TC	Turbochar¡M	Manual	6
20.3813	25.8032	22.5097	TC	Turbochar¡SA	Semi-Auto	6
19.6490	28.9961	22.9829	TC	Turbochar¡SA	Semi-Auto	8
17.0411	22.7325	19.2048	NA	Naturally ASA	Semi-Auto	8
19.8843	23.7762	21.4655	SC	Supercha¡SA	Semi-Auto	8

Lockup Tc	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
MT with pad	dles)	F	2-Wheel D	EADXV02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		406	GP	Gasoline (F
N	N	A	All Wheel I	EADXV02.(	10			GP	Gasoline (F
MT with pad	dles)	F	2-Wheel D	EADXV02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		406	GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		406	GP	Gasoline (F
N	N	A	All Wheel I	EADXV02.(	10			GP	Gasoline (F
MT with pad	dles)	F	2-Wheel D	EADXV02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXV02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.04UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXJ03.04UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXV04.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.04UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXV04.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EVWXV06.	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		389	GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		455	GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.04UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXT02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXT03.03UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXT03.(	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.2	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXV04.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV05.2	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXV05.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.2	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXV04.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV05.2	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXV05.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.2	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXV04.(	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.(	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.(	10			GP	Gasoline (F

Y	N	A	All Wheel IEADXV04.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEADXJ03.0	15		GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel IEADXV02.(	10		GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel IEADXV02.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEADXV04.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEBEXV06.0	85	357	GP	Gasoline (F
Y	N	A	All Wheel IEBEXV06.0	85	357	GP	Gasoline (F
Y	N	A	All Wheel IEADXV04.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEBEXV06.0	85	357	GP	Gasoline (F
Y	N	A	All Wheel IEBEXV06.0	85	357	GP	Gasoline (F
Y	N	R	2-Wheel DEBEXV06.8	10		GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel IEBGTV08.(	10		GPR	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel IENLXV06.5	10		GPR	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel IENLXV06.5	10		GPR	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel IENLXV06.5	10		GPR	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel IEADXV05.2	10		GP	Gasoline (F
N	N	A	All Wheel IEADXV05.2	10		GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel IEADXV05.2	10		GP	Gasoline (F
N	N	A	All Wheel IEADXV05.2	10		GP	Gasoline (F
tomated Ma	nual with	paddles)	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
tomated Ma	nual with	paddles)	2-Wheel DEVWXV02.	10		GP	Gasoline (F
N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
tomated Ma	nual with	paddles)	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
tomated Ma	nual with	paddles)	2-Wheel DEVWXV02.	10		GP	Gasoline (F
N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
tomated Ma	nual with	paddles)	2-Wheel DEVWXJ02.(	10		GP	Gasoline (F
N	N	F	2-Wheel DEVWXJ02.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEVWXV03.	10		GP	Gasoline (F
tomated Ma	nual with	paddles)	2-Wheel DEVWXV02.	10		GP	Gasoline (F
tomated Ma	nual with	paddles)	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
tomated Ma	nual with	paddles)	2-Wheel DEADXV02.(	10		GP	Gasoline (F
N	N	F	2-Wheel DEADXV02.(	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
tomated Ma	nual with	paddles)	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
tomated Ma	nual with	paddles)	2-Wheel DEVWXV02.	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.	10		GP	Gasoline (F

Y	N	F	2-Wheel DEVWXV01.	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.0U4S		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.0U4S		5	DU	Diesel, ultr
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
Y	N	F	2-Wheel DEVWXV03.	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXJ02.(	10		GP	Gasoline (F
N	N	F	2-Wheel DEVWXJ02.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEVWXJ02.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEADXT03.02UG		5	DU	Diesel, ultr
Y	N	A	All Wheel IEVWXT03.	10		GP	Gasoline (F
Y	N	A	All Wheel IEVWXT03.	10		GP	Gasoline (F

Fuel Unit	Fuel Unit	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
MPG	miles per ga	Unleaded Recommended)	Not exempt			91	12		
MPG	miles per ga	Unleaded Recommended)	Not exempt			91	12		
MPG	miles per ga	Unleaded Recommended)	Not exempt			91	12		
MPG	miles per ga	Unleaded Recommended)	Not exempt	81	10				
MPG	miles per ga	Unleaded Recommended)	Not exempt	81	10				
MPG	miles per ga	Unleaded Recommended)	Not exempt	84	12				
MPG	miles per ga	Unleaded Recommended)	Not exempt	84	12				
MPG	miles per ga	Unleaded Recommended)	Not exempt			98	16		
MPG	miles per ga	Unleaded Recommended)	Not exempt			98	16		
MPG	miles per ga	Unleaded Recommended)	Not exempt			98	16		
MPG	miles per ga	ulfur (15 ppm maximum)	Not exempt			98	16		
MPG	miles per ga	ulfur (15 ppm maximum)	Not exempt					94	25
MPG	miles per ga	Unleaded Recommended)	Not exempt					94	25
MPG	miles per ga	Unleaded Recommended)	Not exempt			100	15		
MPG	miles per ga	Unleaded Recommended)	Not exempt			100	15		
MPG	miles per ga	ulfur (15 ppm maximum)	Not exempt			107	15		
MPG	miles per ga	Unleaded Recommended)	Not exempt			107	15		
MPG	miles per ga	Unleaded Recommended)	Not exempt			107	15		
MPG	miles per ga	Unleaded Recommended)	Not exempt			107	15		
MPG	miles per ga	Unleaded Recommended)	Not exempt			90	28		
MPG	miles per ga	Unleaded Recommended)	Truck						
MPG	miles per ga	Unleaded Recommended)	Truck						
MPG	miles per ga	ulfur (15 ppm maximum)	Truck						
MPG	miles per ga	Unleaded Recommended)	Truck						
MPG	miles per ga	ulfur (15 ppm maximum)	Truck						
MPG	miles per ga	Unleaded Recommended)	Truck						
MPG	miles per ga	Unleaded Recommended)	Not exempt						
MPG	miles per ga	Unleaded Recommended)	Not exempt						
MPG	miles per ga	Unleaded Recommended)	Not exempt						
MPG	miles per ga	Unleaded Recommended)	Not exempt						
MPG	miles per ga	Unleaded Recommended)	Not exempt						
MPG	miles per ga	Unleaded Recommended)	Not exempt						
MPG	miles per ga	Unleaded Recommended)	Not exempt						
MPG	miles per ga	Unleaded Recommended)	Not exempt						
MPG	miles per ga	Unleaded Recommended)	Not exempt	84	13				
MPG	miles per ga	Unleaded Recommended)	Not exempt	81	10				
MPG	miles per ga	Unleaded Recommended)	Not exempt					94	25
MPG	miles per ga	Unleaded Recommended)	Not exempt			90	13		
MPG	miles per ga	Unleaded Recommended)	Not exempt			90	13		
MPG	miles per ga	Unleaded Recommended)	Not exempt	84	13				
MPG	miles per ga	Unleaded Recommended)	Not exempt	84	13				
MPG	miles per ga	Unleaded Recommended)	Not exempt	81	10				
MPG	miles per ga	Unleaded Recommended)	Not exempt			98	16		
MPG	miles per ga	Unleaded Recommended)	Not exempt					94	25

Unleaded Recommended)	MPG	miles per gN	Not exempt			100	15	
Unleaded Recommended)	MPG	miles per gN	Truck					
Unleaded Recommended)	MPG	miles per gN	Not exempt	74	13			
Unleaded Recommended)	MPG	miles per gN	Not exempt					
Unleaded Recommended)	MPG	miles per gN	Not exempt	89	11			
Unleaded Recommended)	MPG	miles per gN	Not exempt	89	11			
Unleaded Recommended)	MPG	miles per gN	Not exempt	86	7			
Unleaded Recommended)	MPG	miles per gN	Not exempt	86	7			
Unleaded Recommended)	MPG	miles per gN	Not exempt	86	7			
Unleaded Recommended)	MPG	miles per gN	Not exempt	102	13			
Unleaded Recommended)	MPG	miles per gN	Not exempt			101	11	
Unleaded Required)	MPG	miles per gN	Not exempt					
Unleaded Required)	MPG	miles per gN	Not exempt					
Unleaded Required)	MPG	miles per gN	Not exempt					
Unleaded Required)	MPG	miles per gN	Not exempt					
Unleaded Recommended)	MPG	miles per gN	Not exempt					
Unleaded Recommended)	MPG	miles per gN	Not exempt					
Unleaded Recommended)	MPG	miles per gN	Not exempt					
Unleaded Recommended)	MPG	miles per gN	Not exempt					
ulfur (15 ppm maximum)	MPG	miles per gN	Not exempt				85	15
Unleaded Recommended)	MPG	miles per gN	Not exempt				85	15
ulfur (15 ppm maximum)	MPG	miles per gN	Not exempt				85	15
Unleaded Recommended)	MPG	miles per gN	Not exempt				85	15
Unleaded Recommended)	MPG	miles per gN	Not exempt				85	15
ulfur (15 ppm maximum)	MPG	miles per gN	Not exempt	81	7			
Unleaded Recommended)	MPG	miles per gN	Not exempt	81	7			
ulfur (15 ppm maximum)	MPG	miles per gN	Not exempt	81	7			
Unleaded Recommended)	MPG	miles per gN	Not exempt	81	7			
Unleaded Recommended)	MPG	miles per gN	Not exempt	94	13			
Unleaded Recommended)	MPG	miles per gN	Not exempt	94	13			
Unleaded Recommended)	MPG	miles per gN	Not exempt	94	13			
Unleaded Recommended)	MPG	miles per gN	Not exempt	77	11			
ulfur (15 ppm maximum)	MPG	miles per gN	Not exempt				94	15
ulfur (15 ppm maximum)	MPG	miles per gN	Not exempt				94	15
Unleaded Recommended)	MPG	miles per gN	Not exempt				94	15
Unleaded Recommended)	MPG	miles per gN	Not exempt				94	15
Unleaded Recommended)	MPG	miles per gN	Not exempt				94	15
Unleaded Recommended)	MPG	miles per gN	Not exempt			94	16	
Unleaded Recommended)	MPG	miles per gN	Not exempt			94	16	
ulfur (15 ppm maximum)	MPG	miles per gN	Not exempt			94	16	
Unleaded Recommended)	MPG	miles per gN	Not exempt			94	16	
Unleaded Recommended)	MPG	miles per gN	Not exempt			94	16	
Unleaded Recommended)	MPG	miles per gN	Not exempt			94	16	
ulfur (15 ppm maximum)	MPG	miles per gN	Not exempt			94	16	
Unleaded Recommended)	MPG	miles per gN	Not exempt			94	16	

Unleaded Recommended) MPG	miles per gal	Not exempt	94	16
ulfur (15 ppm maximum) MPG	miles per gal	Not exempt	92	33
ulfur (15 ppm maximum) MPG	miles per gal	Not exempt	92	33
Unleaded Recommended) MPG	miles per gal	Not exempt	92	33
Unleaded Recommended) MPG	miles per gal	Not exempt	92	33
Unleaded Recommended) MPG	miles per gal	Not exempt	102	16
Unleaded Recommended) MPG	miles per gal	Not exempt	102	16
ulfur (15 ppm maximum) MPG	miles per gal	Not exempt	102	16
ulfur (15 ppm maximum) MPG	miles per gal	Not exempt	102	16
Unleaded Recommended) MPG	miles per gal	Not exempt	102	16
Unleaded Recommended) MPG	miles per gal	Not exempt	102	16
Unleaded Recommended) MPG	miles per gal	Not exempt	102	16
Unleaded Recommended) MPG	miles per gal	Truck		
Unleaded Recommended) MPG	miles per gal	Truck		
Unleaded Recommended) MPG	miles per gal	Truck		
ulfur (15 ppm maximum) MPG	miles per gal	Truck		
Unleaded Recommended) MPG	miles per gal	Truck		
Unleaded Recommended) MPG	miles per gal	Truck		

Annual Fu	EPA Calcı	Comment	City2 FE (I	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
2100	2100	eng code correction							
2350	2350	corrected (	14	20	16				17.8408
2150	2150	unrnd unadj combined CO2 value corrected, eng code corrected							
2100	2100	eng code correction							
2350	2350	rounding c	14	20	16				17.8408
2350	2350	rounding c	14	20	16				17.8408
2150	2150	unadj unrnd combined CO2 corrected, eng code correction							
2000	2000	annaual fuel cost correction, eng code correction							
2450	2450	eng code correction							
2550	2550	adj city and highway CO2 corrected							
2000	2000	engine code correction typo							
2000	2000	release date change, eng code correction							
2700	2700								
2700	2700	added configuration data							
2700	2700	release date change							
2050	2050	corrected unadjusted un-rounded combined fuel economy typo, correct fuel savings over 5 y							
2700	2700	added configuration data							
2950	2950	release date change							
3500	3500								
2450	2450	annual fue	14	18	15				17.1
2450	2450	eng code c	14	19	16				17.4
2700	2700	unrnd adj CO2 correction							
2150	2150	Engine code corrected							
2150	2150								
2600	2600	projected sales corrected, release date change, annual fuel cost and 5 yr spending corrected							
3100	3100	annual and 5 year fuel costs corrected, CO2 hwy rounded correction, release date change							
3300	3300								
4000	4000	corrected unrounded unadjusted combined CO2 value							
3500	3500								
4000	4000	CORRECTED THE GAS GUZZLER TO ADJ COMBINED VALUE, corrected CO2 values							
3300	3300								
4000	4000	corrected combined unadjusted unrounded CO2 value							
3500	3500								
4000	4000	corrected CO2 unadjusted unrounded values calculation error							
3100	3100	annual fuel cost and 5 yr cost corrected							
3100	3100	release date change, 5 yr fuel spending corrected; annual fuel cost corrected							
2950	2950	release date change							
2700	2700	correct 5yr fuel spending value							
2800	2800	unadj CO2 values corrected							
2700	2700	corrected 5yr spend value							
2800	2800	CO2 unadj unrnd correction							
2700	2700	CO2 adj unround correction							
2800	2800	release date change							
2800	2800	release date change							

2950	2950	release date change			
2950	2950				
2150	2150				
2150	2150				
3100	3100	annual and 5 year fuel costs corrections			
3750	3750	9	15	11	10.5
3750	3750	correct ani	9	15	11	10.5
3300	3300				
3750	3750	corrected :	9	15	11	10.5
3750	3750	corrected :	9	15	11	10.5
4350	4350	corrected fuel economy rating, release date			
5600	5600	annual fuel cost and 5 yr cost corrected			
4350	4350	fuel rating correction			
4350	4350				
4700	4700				
3500	3500				
3750	3750	fuel economy/ GHG rating corrected			
3500	3500	fuel costs corrected to reflect 2014 unit prices			
4000	4000				
1800	1800				
2150	2150				
1800	1800	unadj unrnd highway typo correction			
2100	2100	CO2 rounding error correction			
2100	2100				
1850	1850				
2250	2250				
1800	1800	typo correction			
2300	2300				
2250	2250				
2250	2250				
2800	2800				
2250	2250				
1700	1700	combined unadj CO2 corrected, typo transposing errors			
1700	1700				
2000	2000	FE&GHG rating corrected, annual and 5 yr savings corrected, CO2 rounding correction			
2100	2100				
2250	2250				
1800	1800				
1750	1750	fuel corrected			
1700	1700	combined unadj CO2 corrected, typo transposing errors			
2100	2100	CO2 rounding correction			
2100	2100				
1900	1900				
1700	1700				
2150	2150				

1250	1250	release date change, TEST GROUP NAME CORRECTION TO EVWXV01.4HEV.
1750	1750	
1700	1700	
2000	2000	FE & GHG ratings corrected, annual and 5 yr costs corrected, CO2 rounding correction
2000	2000	CO2 rounding corrections
1900	1900	CO2 rounding correction
1900	1900	CO2 rounding corrrections
1700	1700	CO2 rounding correction
1650	1650	CO2 unadj, unrnd typo correction
2100	2100	
2000	2000	
2450	2450	
2450	2450	
2700	2700	
2450	2450	corrected combined
2500	2500	
2950	2950	unadj combined CO2 value rounding correction
2700	2700	

Hwy2 Unit	Comb2	CityA2	HwyA2	CombA2	Range2	Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit
28.7294	21.5093	14.1049	20.5013	16.4087	270	E	Ethanol (E8	MPG	miles per g
28.7294	21.5093	14.1049	20.5013	16.4087	270	E	Ethanol (E8	MPG	miles per g
28.7294	21.5093	14.1049	20.5013	16.4087	270	E	Ethanol (E8	MPG	miles per g

rs

25.6	20.1038	13.5432	18.3117	15.3409	254	E	Ethanol (E8	MPG	miles per g
27.1	20.7407	13.7947	19.3602	15.8444	317	E	Ethanol (E8	MPG	miles per g

20.8	13.5107	8.8115	15.1054	10.8449	262	E	Ethanol (E	MPG miles per g
20.5	13.4531	8.6127	14.7094	10.5874	262	E	Ethanol (E	MPG miles per g
20.5	13.4531	8.6127	14.7094	10.5874	262	E	Ethanol (E	MPG miles per g
20.5	13.4531	8.6127	14.7094	10.5874	262	E	Ethanol (E	MPG miles per g

Alternative Fuel Fuel2 AltmCity CO2	Hwy CO2	Comb CO2	Fuel2 EPA	Descriptor	Intake Val	Exhaust V	Carline Cl	Carline Cl
				SIDI;	2	24	Compact C	
2900 439	302	377	2900	SIDI; FFV;	2	24	Compact C	
				SIDI;	2	24	Compact C	
				SIDI;	2	23	Subcompa	
2900 439	302	377	2900	SIDI; FFV;	2	23	Subcompa	
2900 439	302	377	2900	SIDI; FFV;	2	23	Subcompa	
				SIDI;	2	23	Subcompa	
				SIDI;	2	25	Midsize Ca	
				SIDI;	2	25	Midsize Ca	
				SIDI;	2	25	Midsize Ca	
					2	25	Midsize Ca	
					2	25	Midsize Ca	
				SIDI;	2	25	Midsize Ca	
				SIDI;	2	25	Midsize Ca	
				SIDI;	2	25	Midsize Ca	
					2	26	Large Cars	
				SIDI;	2	26	Large Cars	
				SIDI;	2	26	Large Cars	
				SIDI;	2	26	Large Cars	
3100 458	338	404	3100	SIDI; FFV;	2	27	Small Stati	
2900 450	320	392	2900	SIDI; FFV;	2	231	Small SUV 4WD	
				SIDI;	2	231	Small SUV 4WD	
					2	231	Small SUV 4WD	
				SIDI;	2	231	Small SUV 4WD	
					2	233	Standard SUV 4W	
				SIDI;	2	233	Standard SUV 4W	
				SIDI;	2	21	Two Seate	
				SIDI;	2	21	Two Seate	
				SIDI;	2	21	Two Seate	
				SIDI;	2	21	Two Seate	
				SIDI;	2	21	Two Seate	
				SIDI;	2	21	Two Seate	
				SIDI;	2	21	Two Seate	
				SIDI;	2	21	Two Seate	
				SIDI;	2	23	Subcompa	
				SIDI;	2	23	Subcompa	
				SIDI;	2	25	Midsize Ca	
				SIDI;	2	24	Compact C	
				SIDI;	2	24	Compact C	
				SIDI;	2	23	Subcompa	
				SIDI;	2	23	Subcompa	
				SIDI;	2	23	Subcompa	
				SIDI;	2	25	Midsize Ca	
				SIDI;	2	25	Midsize Ca	

					SIDI;	2	25	Midsize Ca
					SIDI;	2	231	Small SUV 4WD
					SIDI;	2	23	Subcompa
					SIDI;	2	21	Two Seate
					SIDI;	2	24	Compact C
4250	711	410	576	4250	FFV;	2	24	Compact C
4250	726	421	589	4250	FFV;	2	23	Subcompa
					SIDI;	2	23	Subcompa
4250	726	421	589	4250	FFV;	2	23	Subcompa
4250	726	421	589	4250	FFV;	2	25	Midsize Ca
						1	15	Midsize Ca
						2	21	Two Seate
						2	21	Two Seate
						2	21	Two Seate
						2	21	Two Seate
					SIDI;	2	21	Two Seate
					SIDI;	2	21	Two Seate
					SIDI;	2	21	Two Seate
					SIDI;	2	21	Two Seate
						2	24	Compact C
					SIDI;	2	24	Compact C
						2	24	Compact C
						2	24	Compact C
						2	24	Compact C
						2	23	Subcompa
					SIDI;	2	23	Subcompa
						2	23	Subcompa
						2	23	Subcompa
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	23	Subcompa
						2	24	Compact C
						2	24	Compact C
						2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
						2	24	Compact C
					SIDI;	2	24	Compact C
						1	14	Compact C
						1	14	Compact C
						2	24	Compact C
					SIDI;	2	24	Compact C

SIDI;	2	24	Compact C
	2	27	Small Stati
	2	27	Small Stati
	2	27	Small Stati
	2	27	Small Stati
SIDI;	2	25	Midsize Ca
SIDI;	2	25	Midsize Ca
	2	25	Midsize Ca
	2	25	Midsize Ca
	2	25	Midsize Ca
	2	25	Midsize Ca
SIDI;	2	25	Midsize Ca
SIDI;	2	230	Small SUV 2WD
SIDI;	2	230	Small SUV 2WD
SIDI;	2	231	Small SUV 4WD
	2	233	Standard SUV 4W
SIDI;	2	233	Standard SUV 4W
SIDI;	2	233	Standard SUV 4W

SC	Car/Truck	Calc Appr	Sales	Release D	EPA FE Label Dataset ID	Unique La	Label Rec	Relabel	Relabel D
	car	Derived 5-cycle label		6/7/2013	13993	N	N		
	car	Derived 5-cycle label		6/7/2013	13987	N	N		
	car	Vehicle Specific 5-cycle label		6/7/2013	13995	N	N		
	car	Derived 5-cycle label		6/7/2013	13994	N	N		
	car	Derived 5-cycle label		6/7/2013	13989	N	N		
	car	Derived 5-cycle label		6/7/2013	14008	N	N		
	car	Vehicle Specific 5-cycle label		6/7/2013	13996	N	N		
	car	Vehicle Specific 5-cycle label		6/7/2013	13992	N	N		
	car	Vehicle Specific 5-cycle label		6/7/2013	13997	N	N		
	car	Derived 5-cycle label		6/14/2013	13972	N	N		
	car	Vehicle Specific 5-cycle label		6/21/2013	14199	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	14200	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13857	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13858	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	14000	N	N		
	car	Vehicle Specific 5-cycle label		2/8/2013	13281	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13859	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13999	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13900	N	N		
ons	car	Derived 5-cycle label		6/7/2013	13986	N	N		
		Derived 5-cycle label		6/7/2013	13991	N	N		
		Vehicle Specific 5-cycle label		6/14/2013	13974	N	N		
		Vehicle Specific 5-cycle label		6/21/2013	14198	N	N		
		Vehicle Specific 5-cycle label		6/14/2013	13848	N	N		
	D	Vehicle Specific 5-cycle label		6/14/2013	14009	N	N		
	D	Derived 5-cycle label		6/14/2013	14007	N	N		
	car	Vehicle Specific 5-cycle label		2/8/2013	12975	N	N		
	car	Vehicle Specific 5-cycle label		2/8/2013	13038	N	N		
	car	Vehicle Specific 5-cycle label		2/8/2013	12971	N	N		
	car	Vehicle Specific 5-cycle label		2/8/2013	13036	N	N		
	car	Vehicle Specific 5-cycle label		2/8/2013	12974	N	N		
	car	Vehicle Specific 5-cycle label		2/8/2013	13037	N	N		
	car	Vehicle Specific 5-cycle label		2/8/2013	12970	N	N		
	car	Vehicle Specific 5-cycle label		2/8/2013	13035	N	N		
	car	Vehicle Specific 5-cycle label		6/3/2013	13728	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	14119	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	14004	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13884	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13976	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13883	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13977	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	13975	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	14003	N	N		
	car	Vehicle Specific 5-cycle label		6/14/2013	14002	N	N		

car	Vehicle Specific 5-cycle label	6/14/2013	14001	[redacted]	N	N
	Vehicle Specific 5-cycle label	7/19/2013	14476	[redacted]	N	N
car	Vehicle Specific 5-cycle label	5/31/2013	13808	[redacted]	N	N
car	Vehicle Specific 5-cycle label	5/31/2013	13809	[redacted]	N	N
car	Vehicle Specific 5-cycle label	7/1/2013	13732	[redacted]	N	N
car	Vehicle Specific 5-cycle label	3/20/2013	13231	[redacted]	N	N
car	Vehicle Specific 5-cycle label	3/18/2013	13376	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13614	[redacted]	N	N
car	Vehicle Specific 5-cycle label	3/18/2013	13375	[redacted]	N	N
car	Vehicle Specific 5-cycle label	3/18/2013	13374	[redacted]	N	N
car	Vehicle Specific 5-cycle label	8/19/2013	14568	[redacted]	N	N
car	Vehicle Specific 5-cycle label	5/15/2013	13724	[redacted]	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	14011	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/13/2013	13877	[redacted]	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	13822	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13706	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13827	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13710	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13709	[redacted]	N	N
car	Derived 5-cycle label	6/14/2013	13832	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14124	[redacted]	N	N
car	Derived 5-cycle label	6/14/2013	13979	[redacted]	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14213	[redacted]	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14197	[redacted]	N	N
car	Derived 5-cycle label	6/14/2013	13833	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14125	[redacted]	N	N
car	Derived 5-cycle label	6/14/2013	13980	[redacted]	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14195	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14064	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14065	[redacted]	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	13700	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/14/2013	14127	[redacted]	N	N
car	Derived 5-cycle label	6/17/2013	13985	[redacted]	N	N
car	Derived 5-cycle label	6/17/2013	13847	[redacted]	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14234	[redacted]	N	N
car	Vehicle Specific 5-cycle label	7/22/2013	14514	[redacted]	N	N
car	Vehicle Specific 5-cycle label	7/22/2013	14515	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14136	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14135	[redacted]	N	N
car	Derived 5-cycle label	6/17/2013	13984	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14217	[redacted]	N	N
car	Vehicle Specific 5-cycle label	7/1/2013	14281	[redacted]	N	N
car	Vehicle Specific 5-cycle label	7/1/2013	14282	[redacted]	N	N
car	Derived 5-cycle label	6/17/2013	13826	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14139	[redacted]	N	N

car	Derived Vehicle Specific 5-cycle	8/15/2013	14719	[redacted]	N	N
cars	Derived 5-cycle label	6/24/2013	13819	[redacted]	N	N
cars	Derived 5-cycle label	6/17/2013	13825	[redacted]	N	N
cars	Vehicle Specific 5-cycle label	7/12/2013	14233	[redacted]	N	N
cars	Vehicle Specific 5-cycle label	7/12/2013	14218	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14219	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14220	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/28/2013	14225	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/28/2013	14226	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/25/2013	14188	[redacted]	N	N
car	Vehicle Specific 5-cycle label	6/25/2013	14189	[redacted]	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	13699	[redacted]	N	N
	Derived 5-cycle label	6/17/2013	14069	[redacted]	N	N
	Vehicle Specific 5-cycle label	6/17/2013	14070	[redacted]	N	N
	Derived 5-cycle label	6/17/2013	14122	[redacted]	N	N
D	Vehicle Specific 5-cycle label	5/13/2013	13666	[redacted]	N	N
D	Derived 5-cycle label	6/14/2013	14120	[redacted]	N	N
D	Derived 5-cycle label	5/28/2013	13781	[redacted]	N	N

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	N		N	N				
N	N	N		N	N				
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	
N	N	N		N	N				
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	
N	N	N		Y	Intake and		N		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	N		N	N				
N	N	N		Y	CONTINUCY		AUDI VALV	Battery(s)	
N	N	N		N	N				
N	N	N		Y	CONTINUC		N		
N	N	N		Y	CONTINUC		N		
N	N	N		Y	CONTINUC		N		
N	N	ENGINE CC	N	Y	INLET AND		N		
N	N	ENGINE CC	N	Y	INLET AND		N		
N	N	N		Y	CONTINUC		N		
N	N	N		Y	CONTINUC		N		
N	N	ENGINE CC	N	Y	INLET AND		N		
N	N	ENGINE CC	N	Y	INLET AND		N		
N	N	N		Y	Continuou		N		
N	N	N		Y	Continuou		N		
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	

N	N	Engine Coc Y	Deactivatic Y	Continuou Y	Multi-lobe
N	N	Engine Coc N	Y	CONTINUCY	AUDI VALV
N	N	ENGINE CC N	Y	CONTINUCY	AUDI VALV
N	N	ENGINE CC N	Y	CONTINUCY	AUDI VALV
N	N	Engine Coc Y	Deactivatic Y	Continuou Y	Multi-lobe
N	N	N	Y	INLET AND N	
N	N	N	Y	INLET AND N	
N	N	Engine Coc Y	Deactivatic Y	Continuou Y	Multi-lobe
N	N	N	Y	INLET AND N	
N	N	N	Y	INLET AND N	
N	N	Y	Cylinder de Y	Variation c N	
N	N	CHARGE A N	Y	INLET AND N	
N	N	Engine Coc Y	ELECTRON Y	HYDRAULI(N	
N	N	Engine Coc Y	ELECTRON Y	HYDRAULI(N	
N	N	Engine Coc Y	ELECTRON Y	HYDRAULI(N	
N	N	ENGINE CC N	Y	INLET AND N	
N	N	ENGINE CC N	Y	INLET AND N	
N	N	ENGINE CC N	Y	INLET AND N	
N	N	ENGINE CC N	Y	INLET AND N	
N	N	N	N	N	
N	N	N	Y	MECANICA N	
N	N	N	N	N	
N	N	N	Y	INLET CON N	
N	N	N	Y	INLET CON N	
N	N	N	N	N	
N	N	N	Y	MECANICA N	
N	N	N	N	N	
N	N	N	Y	INLET CON N	
N	N	N	Y	position of N	
N	N	N	Y	position of N	
N	N	N	Y	position of N	
N	N	N	Y	CONTINUC N	
N	N	N	N	N	
N	N	N	N	N	
N	N	N	Y	INLET CON N	
N	N	Test Group N	Y	CONTINUC N	
N	N	Test Group N	Y	CONTINUC N	
N	N	N	Y	MECANICA N	
N	N	N	Y	MECANICA N	
N	N	N	N	N	
N	N	N	Y	MECANICA N	
N	N	N	N	N	
N	N	N	N	N	
N	N	N	N	N	
N	N	N	Y	MECANICA N	

N	N	nach for Highway label	N	Y	MECANICAN	Battery(s)
N	N		N	N	N	
N	N		N	N	N	
N	N		N	Y	INLET CONN	
N	N		N	Y	INLET CONN	
N	N		N	Y	MECANICAN	
N	N		N	Y	MECANICAN	
N	N	SCR Equipr	N	N	N	
N	N	SCR Equipr	N	N	N	
N	N		N	Y	INLET CONN	
N	N		N	Y	INLET CONN	
N	N		N	Y	Electronic	N
N	N		N	Y	position of	N
N	N		N	Y	position of	N
N	N		N	Y	position of	N
N	N		N	N	N	
N	N		N	Y	INTAKE / E	N
N	N	V6 CYLIND	N	Y	MECANICAN	Battery(s)

evice Desc	Energy St	# Batterie	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
[illegible]										
[illegible]										
		1	Lithium Ior		266	5.00	37.0	On-Board		

EMENT
EMENT
ECHANICAL-HYDRAULIC
ECHANICAL-HYDRAULIC
EMENT
EMENT
ECHANICAL-HYDRAULIC
ECHANICAL-HYDRAULIC

aust valves on a single camshaft. No change in valve overlaps.

ECHANICAL-HYDRAULIC

ECHANICAL-HYDRAULIC

ECHANICAL-HYDRAULIC

ND OUTLET CAMS	1 Lithium Ior	220	5.00	27.0	On-Board

YDRAULIC
YDRAULIC
AMS
AMS

YDRAULIC
YDRAULIC

controlled and hydraulically adjusted
controlled and hydraulically adjusted
controlled and hydraulically adjusted

LICALLY AND CONTROLLED ELECTRONICALLY

AMS	1 NiMH	288	6.00	21.5	On-Board

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C	# Drive M	Motor Ger

(2) Driver selected gear at the beginning of the cycle, engine speed 930 to 3500 RPM, vehicle speed greater than 25 km

(2) Driver selected gear at the beginning of the cycle, engine speed 930 to 3500 RPM, vehicle speed greater than 25 km

(2) Driver selected gear at the beginning of the cycle, engine speed 930 to 3500 RPM, vehicle speed greater than 25 km

Electrical R	BRAKE PED	Front Whe	Y	1 Other
Other	BRAKE PED	Both	N	1 Other

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				CRDI	Common R			N	5W30 VW
				CRDI	Common R			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
h				GDI	Spark Ignit			N	5W30 VW
				CRDI	Common R			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
h				GDI	Spark Ignit			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				CRDI	Common R			N	5W30 VW
		40		GDI	Spark Ignit	N	N	N	5W40 VW
				CRDI	Common R			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W/30, VV
				GDI	Spark Ignit			N	5W/30, VV
				GDI	Spark Ignit			N	10W60 VW
				GDI	Spark Ignit			N	10W60 VW
				GDI	Spark Ignit			N	5W/30, VV
				GDI	Spark Ignit			N	5W/30, VV
				GDI	Spark Ignit			N	10W60 VW
				GDI	Spark Ignit			N	10W60 VW
				GDI	Spark Ignit			N	5W30 VW
				GDI	Spark Ignit			N	5W30 VW
h				GDI	Spark Ignit			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
h				GDI	Spark Ignit			N	5W30 VW
h				GDI	Spark Ignit			N	5W30 VW

h	GDI	Spark Ignit	N	5W30 VW
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit N	N	5W40
	GDI	Spark Ignit N	N	5W40
h	GDI	Spark Ignit	N	5W30 VW
	MFI	Multipoint N	N	5W30 VW
	MFI	Multipoint N	N	5W30 VW
h	GDI	Spark Ignit	N	5W30 VW
	MFI	Multipoint N	N	5W30 VW
	MFI	Multipoint N	N	5W30 VW
	MFI	Multipoint	N	0W40 / VV
	MFI	Multipoint	N	10W60 VW
	MFI	Multipoint	N	5W30 VW
	MFI	Multipoint	N	5W30 VW
	MFI	Multipoint	N	5W30 VW
	GDI	Spark Ignit	N	10W60 VW
	GDI	Spark Ignit	N	10W60 VW
	GDI	Spark Ignit	N	10W60 VW
	GDI	Spark Ignit	N	10W60 VW
	CRDI	Common RN	N	5W40
	GDI	Spark Ignit	N	5W40 VW
	CRDI	Common RN	N	5W40
	MFI	Multipoint	N	10W40 / V
	MFI	Multipoint	N	10W40 / V
	CRDI	Common RN	N	5W40
	GDI	Spark Ignit	N	5W40 VW
	CRDI	Common RN	N	5W40
	MFI	Multipoint	N	10W40 / V
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W-40 VW
	GDI	Spark Ignit	N	5W40 / VV
	CRDI	Common RN	N	5W40
	CRDI	Common RN	N	5W40
	MFI	Multipoint	N	10W40 / V
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W40 VW
	CRDI	Common RN	N	5W40
	GDI	Spark Ignit	N	5W40 VW
	MFI	Multipoint	N	5W40 VW
	MFI	Multipoint	N	5W40 VW
	CRDI	Common RN	N	5W40
	GDI	Spark Ignit	N	5W40 VW

3 PHASE PI	28		GDI	Spark Ignit	N	N	N	5W40 VW
			CRDI	Common R	N		N	5W40
			CRDI	Common R	N		N	5W40
			MFI	Multipoint			N	10W40 / V
			MFI	Multipoint			N	10W40 / V
			GDI	Spark Ignit			N	5W40 VW
			GDI	Spark Ignit			N	5W40 VW
			CRDI	Common R			N	5W40 VW
			CRDI	Common R			N	5W40 VW
			MFI	Multipoint			N	10W40 / V
			MFI	Multipoint			N	10W40 / V
			GDI	Spark Ignit			N	5W40 VW
			GDI	Spark Ignit			N	5W40 VW
			GDI	Spark Ignit			N	5W40 VW
			GDI	Spark Ignit			N	5W40 VW
			CRDI	Common R			N	5W30 VW
			GDI	Spark Ignit			N	5W40 VW
3 PHASE CI	34		GDI	Spark Ignit	N	N	N	5W40 VW

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
N	No	Auto(AV-S	Auto(AV-S						
N	No	Auto(S8)	Auto(S8)						
N	No	Manual(M	Manual(M						
N	No	Auto(AV-S	Auto(AV-S						
N	No	Auto(S8)	Auto(S8)	A5 Cabriol					
N	No	Auto(S8)	Auto(S8)						
N	No	Manual(M	Manual(M						
N	No	Auto(AV-S	Auto(AV-S	Audi A6 CV					
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)	Audi A6 qu					
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	50700 Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	50700 Yes	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)	Audi Q7					
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
M	50500 No	Auto(AM-S	Auto(AM-S						
M	50500 No	Manual(M	Manual(M						
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
M	50500 No	Auto(AM-S	Auto(AM-S						
M	50500 No	Manual(M	Manual(M						
N	50700 No	Auto(AM-S	Auto(AM-S						
N	50700 No	Auto(AM-S	Auto(AM-S						
N	50700 No	Auto(S8)	Auto(S8)						
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
N	No	Auto(AM-S	Auto(AM-S						
N	50700 No	Auto(AM-S	Auto(AM-S						
N	50700 No	Auto(AM-S	Auto(AM-S						

N50700	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	
N	No	Auto(AM-S	Auto(AM-S	TT Coupe c
N	No	Auto(AM-S	Auto(AM-S	TT Coupe c
N50700	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	
N50700	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	
NVW50500	No	Auto(S8)	Auto(S8)	
N 50500	No	Auto(AM-S	Auto(AM-S	
Y50700	Yes	Auto(AM-S	Auto(AM-S	
N50700	No	Auto(AM-S	Auto(AM-S	VENENO
Y50700	Yes	Auto(AM-S	Auto(AM-S	
N 50500	No	Auto(AM-S	Auto(AM-S	
N 50500	No	Manual(M	Manual(M	Gallardo C
N 50500	No	Auto(AM-S	Auto(AM-S	
N 50500	No	Manual(M	Manual(M	Gallardo S
N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Manual(M	Manual(M	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M	Manual(M	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Manual(M	Manual(M	
N	No	Auto(S6)	Auto(S6)	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Manual(M	Manual(M	CC M6
N	No	Auto(S6)	Auto(S6)	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Manual(M	Manual(M	Jetta Sport
N	No	Auto(S6)	Auto(S6)	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Manual(M	Manual(M	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M	Manual(M	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(S6)	Auto(S6)	Jetta Base
N	No	Manual(M	Manual(M	
N	No	Manual(M	Manual(M	Jetta Sport
N	No	Manual(M	Manual(M	

N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Manual(M	Manual(M	Jetta Sport
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M	Manual(M	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M	Manual(M	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Manual(M	Manual(M	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M	Manual(M	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(S6)	Auto(S6)	Tiguan fro
N	No	Manual(M	Manual(M	
N	No	Auto(S6)	Auto(S6)	
N	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	Touareg H

[illegible]	EPA Calculated Gas G	[illegible]	[illegible] (GHG Ratin	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
35.2	[redacted]	7	7	EADXV02.(	5		
30.9		6	6	EADXJ02.0	5		
33.1		7	7	EADXV02.(	5		
35.2		7	7	EADXV02.(	5		
30.9		6	6	EADXJ02.0	5		
30.9		6	6	EADXJ02.0	5		
33.1		7	7	EADXV02.(	5		
36.9		7	7	EADXV02.(	5		
30.0		6	6	EADXV02.(	5		
28.1		5	5	EADXJ03.0	5		
37.7		7	7	EADXJ03.0	5		
37.7		7	7	EADXJ03.0	5		
27.2		5	5	EADXJ03.0	5		
27.2		5	5	EADXJ03.0	5		
27.1		5	5	EADXV04.(	5		
36.9		7	6	EADXJ03.0	5		
27.2		5	5	EADXJ03.0	5		
24.4		4	4	EADXV04.(	5		
19.3		3	3	EVWXV06.	5		
29.5		6	6	EADXJ02.0	5		
29.6		6	6	EADXJ02.0	5		
27.2		5	5	EADXJ03.0	5		
34.3		7	6	EADXJ03.0	5		
34.0		7	7	EADXT02.(	5		
28.1		5	4	EADXT03.(	5		
23.1		4	4	EADXT03.(	5		
20.8		3	3	EADXV04.2	5		
17.2		2	2	EADXV04.2	5		
19.6		3	3	EADXV05.2	5		
17.0		2	2	EADXV05.2	5		
20.8		3	3	EADXV04.2	5		
17.2		2	2	EADXV04.2	5		
19.6		3	3	EADXV05.2	5		
16.8		2	2	EADXV05.2	5		
23.0		4	4	EADXV04.2	5		
22.6		4	4	EADXV04.2	5		
24.1		4	4	EADXV04.(	5		
26.9		5	5	EADXJ03.0	5		
23.5		5	5	EADXJ03.0	5		
26.9		5	5	EADXJ03.0	5		
23.5		5	5	EADXJ03.0	5		
26.4		5	5	EADXJ03.0	5		
25.5		5	5	EADXV04.(	5		
25.5		5	5	EADXV04.(	5		

23.6	[redacted]	4	4 EADXV04.(	5
24.0		4	4 EADXJ03.0	5
33.2		7	7 EADXV02.(	5
33.2		7	7 EADXV02.(	5
23.6		4	4 EADXV04.(	5
19.5		2	2 EBEXV06.0	5
18.3		2	2 EBEXV06.0	5
21.8		3	3 EADXV04.(	5
18.3		2	2 EBEXV06.0	5
18.3		2	2 EBEXV06.0	5
15.9		1	1 EBEXV06.8	5
12.6		1	1 EBGTV08.(	5
16.4		1	1 ENLXV06.5	5
15.8		1	1 ENLXV06.5	5
14.5		1	1 ENLXV06.5	5
19.4		3	3 EADXV05.2	5
17.4		2	2 EADXV05.2	5
19.3		3	3 EADXV05.2	5
16.1		2	2 EADXV05.2	5
43.7		8	7 EVWXV02.	5
33.9		7	7 EVWXV02.	5
43.4		8	7 EVWXV02.	5
31.6		6	6 EVWXV02.	7
32.0		6	6 EVWXV02.	7
42.3		8	7 EVWXV02.	5
33.2		6	6 EVWXV02.	5
43.4		8	7 EVWXV02.	5
30.3		6	6 EVWXV02.	7
32.3		6	6 EVWXJ02.(	5
31.6		6	6 EVWXJ02.(	5
24.8		5	5 EVWXV03.	5
32.4		6	6 EVWXV02.	5
46.2		8	8 EVWXV02.	5
46.0		8	8 EVWXV02.	5
32.2		7	7 EVWXV02.	7
34.4		7	7 EADXV02.(	7
30.9		6	6 EADXV02.(	7
37.5		7	7 EVWXV02.	5
38.4		8	8 EVWXV02.	5
46.2		8	8 EVWXV02.	5
34.8		7	7 EVWXV02.	5
32.9		6	6 EVWXV02.	5
34.7		7	7 EVWXV02.	5
46.0		8	8 EVWXV02.	5
34.0		7	7 EVWXV02.	5

60.8	[redacted]	10	10 EVWXV01.	7
44.2		8	7 EVWXV02.	5
46.0		8	8 EVWXV02.	5
32.2		7	7 EVWXV02.	7
32.1		7	7 EVWXV02.	7
36.1		7	7 EVWXV02.	5
36.3		7	7 EVWXV02.	5
44.6		8	8 EVWXV02.	5
46.4		9	8 EVWXV02.	5
31.9		6	6 EVWXV02.	7
31.7		7	7 EVWXV02.	7
28.5		6	6 EVWXV03.	5
29.7		6	6 EVWXJ02.(	5
26.4		5	5 EVWXJ02.(	5
29.5		6	6 EVWXJ02.(	5
29.6		6	5 EADXT03.(	5
25.0		4	4 EVWXT03.(	5
28.2		5	5 EVWXT03.(	5

#3 Smog R #3 Mfr Sm #3 EPA Sm SmartWay #4 Smog R #4 Mfr Sm

EVWXV02.	7
EVWXV02.	5
EVWXV02.	5
EVWXV02.	7
EVWXV02.	5
EVWXV02.	7
EVWXV02.	7
EVWXV02.	5
EVWXV02.	7
EVWXV02.	7
EVWXV02.	7
EVWXV02.	7

EVWXV02.	5
EVWXV02.	5
EVWXV02.	7
EVWXV02.	7
EVWXV02.	5
EVWXV02.	5

[illegible]	You Save $	You Spend $	City CO2	Hwy CO2	Comb CO2	CO2- Volu	CO2- Volu	CO2-Vol In
	1000		376	281	333			
		250	435	307	377			
	750		397	276	343			
	1000		376	281	333			
		250	435	307	377			
		250	435	307	377			
	750		397	276	343			
	1500		360	272	320			
		750	452	306	386			
		1250	482	326	412			
	1500		416	267	349			
	1500		416	267	349			
		2000	500	321	420			
		2000	500	321	420			
		2000	515	313	424			
	1250		426	280	360			
		2000	500	321	420			
		3250	554	345	460			
		6000	675	430	565			
		750	444	333	394			
		750	452	322	393			
		2000	496	347	429			
	750		430	328	385			
	750		369	298	337			
		1500	541	369	464			
		4000	570	409	498			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			
		4000	562	379	480			
		4000	558	398	486			
		3250	573	336	466			
		2000	488	321	413			
		2500	442	357	403			
		2000	488	321	413			
		2500	442	357	403			
		2000	500	341	428			
		2500	531	331	441			
		2500	531	331	441			

	3250	580	347	475
	3250	546	388	475
750		396	285	346
750		396	285	346
	4000	590	364	488
	7250	710	421	580
	7250	736	443	604
	5000	638	370	517
	7250	736	443	604
	7250	736	443	604
	10250	840	501	688
	16500	1050	599	847
	10250	836	481	676
	10250	831	523	692
	12000	902	547	742
	6000	657	447	562
	7250	734	511	634
	6000	660	446	564
	8500	768	452	626
2500		354	262	313
750		377	302	343
2500		365	250	313
1000		397	310	358
1000		407	289	354
2250		363	278	324
250		393	313	357
2500		365	250	313
0		418	329	378
250		403	283	349
250		426	279	360
	2500	523	351	446
250		405	257	338
3000		340	245	297
3000		342	243	298
1500		383	292	342
1000		382	273	333
250		421	288	361
2500		354	252	308
2750		344	252	303
3000		340	245	297
1000		379	281	334
1000		381	299	344
2000		361	262	316
3000		342	243	298
750		389	274	338

5250		212	185	200
2750		352	258	310
3000		342	243	298
1500		383	292	342
1500		391	266	335
2000		371	267	324
2000		365	259	317
3000		331	240	290
3250		330	239	289
1000		399	289	350
1500		388	275	337
	750	449	319	390
	750	431	344	392
	2000	484	336	417
	750	435	344	394
	1000	517	351	442
	3250	520	391	462
	2000	447	372	413

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	240V Char	120V Char	PHEV Tota
293.8	199.8	251.5	375.8	281.3	333.3
344.2	218.7	287.7	435.2	306.7	377.4
320.8	202.3	267.5	397.5	276.5	343.0
293.8	199.8	251.5	375.8	281.3	333.3
344.2	218.7	287.7	435.2	306.7	377.4
344.2	218.7	287.7	435.2	306.7	377.4
320.8	202.3	267.5	397.5	276.5	343.0
282.0	189.0	240.2	360.0	272.0	320.4
358.0	219.0	295.4	452.0	306.0	386.3
383.5	233.0	315.8	481.7	326.0	411.6
331.0	194.0	269.4	415.7	267.3	348.9
331.0	194.0	269.4	415.7	267.3	348.9
397.5	239.9	326.6	500.5	320.9	419.7
397.5	239.9	326.6	500.5	320.9	419.7
409.5	232.0	329.6	515.1	313.1	424.2
339.0	198.0	275.6	425.6	280.1	360.1
397.5	239.9	326.6	500.5	320.9	419.7
447.5	262.0	364.0	554.1	344.7	459.9
559.0	346.0	463.2	675.0	430.0	564.8
352.0	238.0	300.7	444.5	332.7	394.2
358.0	230.0	300.4	451.6	321.9	393.2
390.0	251.0	327.4	496.0	347.0	429.0
348.0	234.0	296.7	430.5	328.5	384.6
380.0	223.0	309.4	369.0	298.0	337.0
446.0	260.0	362.3	541.0	369.0	463.6
458.0	295.0	384.6	569.6	409.5	497.6
540.1	299.6	431.9	655.8	394.0	538.0
650.6	360.5	520.1	770.1	435.7	619.6
577.0	309.4	456.6	685.6	400.2	557.2
646.2	378.3	525.6	754.5	455.5	620.0
540.1	299.6	431.9	655.8	394.0	538.0
650.6	360.5	520.1	770.1	435.7	619.6
577.0	309.4	456.6	685.6	400.2	557.2
646.2	378.3	525.6	754.5	455.5	620.0
466.0	296.0	389.5	562.0	379.0	479.6
463.0	307.0	392.8	558.0	398.0	486.0
467.0	253.0	370.7	573.0	336.1	466.4
396.0	248.0	329.4	488.0	321.0	412.8
443.0	266.0	363.4	441.7	356.7	403.4
396.0	248.0	329.4	488.0	321.0	412.8
443.0	266.0	363.4	441.7	356.7	403.4
401.0	256.0	335.8	500.0	341.0	428.4
428.2	253.6	349.6	531.0	331.4	441.2
428.2	253.6	349.6	531.0	331.4	441.2

468.0	267.0	377.6	580.3	347.3	475.4
446.0	274.0	368.6	546.2	388.3	475.1
313.0	210.7	267.0	395.8	285.1	346.0
313.0	210.7	267.0	395.8	285.1	346.0
466.0	265.0	375.6	590.0	364.0	488.3
576.0	314.0	458.1	709.5	420.8	579.6
617.0	333.0	489.2	736.3	442.9	604.3
510.0	288.0	410.1	638.0	370.0	517.4
617.0	333.0	489.2	736.3	442.9	604.3
617.0	333.0	489.2	736.3	442.9	604.3
690.0	408.0	563.1	840.4	501.0	687.7
885.0	495.0	709.5	1050.0	599.0	847.0
705.0	353.0	546.6	836.0	481.0	676.2
708.0	392.0	565.8	831.0	523.0	692.4
771.0	418.0	612.2	902.0	547.0	742.2
552.0	349.0	460.6	657.0	447.0	562.5
635.0	370.0	515.8	734.0	511.0	633.6
556.0	348.0	462.4	660.0	446.0	563.7
681.0	391.0	550.5	768.0	452.0	625.8
272.0	184.0	232.4	354.3	261.8	312.7
306.7	211.3	263.8	377.0	302.3	343.4
281.2	175.2	233.5	365.1	249.9	313.3
324.0	227.7	280.7	396.6	310.3	357.8
334.9	206.9	277.3	407.3	288.6	353.9
279.0	196.0	241.6	362.5	277.9	324.4
309.1	219.0	268.6	392.7	313.4	357.0
281.2	175.2	233.5	365.1	249.9	313.3
335.6	235.6	290.6	418.5	329.4	378.4
327.2	207.7	273.4	402.8	282.7	348.8
346.5	202.9	281.9	425.8	279.1	359.8
434.0	265.0	358.0	523.0	351.0	445.6
321.0	213.0	272.4	404.7	256.6	338.1
259.9	171.5	220.1	340.0	244.9	297.2
262.0	170.1	220.6	342.5	243.1	297.8
327.2	211.5	275.1	383.2	292.0	342.2
299.0	206.0	257.2	382.0	273.0	333.0
345.0	217.0	287.4	421.0	288.0	361.2
284.5	181.8	238.3	353.5	251.9	307.8
276.2	180.6	233.2	344.5	251.5	302.6
259.9	171.5	220.1	340.0	244.9	297.2
302.4	201.2	256.9	378.6	280.6	334.5
315.0	214.0	269.6	381.3	298.8	344.2
307.0	192.0	255.2	360.5	262.0	316.2
262.0	170.1	220.6	342.5	243.1	297.8
316.2	198.2	263.1	389.2	274.4	337.5

155.0	136.0	146.4	211.9	184.8	199.7
270.0	181.0	230.0	351.9	257.7	309.5
262.0	170.1	220.6	342.5	243.1	297.8
327.2	211.5	275.1	383.2	292.0	342.2
338.3	201.3	276.6	391.4	266.2	335.1
298.7	185.4	247.7	371.3	266.5	324.1
295.6	185.7	246.1	365.0	258.8	317.2
268.0	179.0	228.0	331.0	240.0	290.0
266.0	162.0	219.2	330.0	239.0	289.0
327.8	217.5	278.2	399.3	289.4	349.8
339.9	207.4	280.3	387.7	275.0	337.0
372.0	238.0	311.7	449.0	319.0	390.5
340.8	246.4	298.3	431.3	344.0	392.0
407.0	248.0	335.4	484.0	336.0	417.4
343.9	246.4	300.0	435.0	344.0	394.0
422.0	248.0	343.7	517.0	351.0	442.3
416.0	281.0	355.2	520.1	390.6	461.8
354.0	267.0	314.8	446.9	371.8	413.1

[illegible]	Comb Vol Higher	Final Label	EPA_FUEL	EPA_GHG	EPA_AMT
N	3.7	3.7			
N	4.2	4.2			
N	3.8	3.8			
N	3.7	3.7			
N	4.2	4.2			
N	4.2	4.2			
N	3.8	3.8			
N	3.6	3.6			
N	4.3	4.3			
N	4.5	4.5			
N	3.4	3.4			
N	3.4	3.4			
N	4.8	4.8			
N	4.8	4.8			
N	4.8	4.8			
N	3.6	3.6			
N	4.8	4.8			
N	5.3	5.3			
N	6.2	6.2			
N	4.3	4.3			
N	4.3	4.3			
N	4.8	4.8			
N	3.7	3.7			
N	3.8	3.8			
N	4.5	4.5			
N	5.6	5.6			
N	5.9	5.9			
N	7.1	7.1			
N	6.2	6.2			
N	7.1	7.1			
N	5.9	5.9			
N	7.1	7.1			
N	6.2	6.2			
N	7.1	7.1			
N	5.6	5.6			
N	5.6	5.6			
N	5.3	5.3			
N	4.8	4.8			
N	5.0	5.0			
N	4.8	4.8			
N	5.0	5.0			
N	4.8	4.8			
N	5.0	5.0			
N	5.0	5.0			

N	5.3	5.3
N	5.3	5.3
N	3.8	3.8
N	3.8	3.8
N	5.6	5.6
N	6.7	6.7
N	6.7	6.7
N	5.9	5.9
N	6.7	6.7
N	6.7	6.7
N	7.7	7.7
N	10.0	10.0
N	7.7	7.7
N	7.7	7.7
N	8.3	8.3
N	6.2	6.2
N	6.7	6.7
N	6.2	6.2
N	7.1	7.1
N	3.1	3.1
N	3.8	3.8
N	3.1	3.1
N	4.0	4.0
N	4.0	4.0
N	3.2	3.2
N	4.0	4.0
N	3.1	3.1
N	4.3	4.3
N	4.0	4.0
N	4.0	4.0
N	5.0	5.0
N	4.0	4.0
N	2.9	2.9
N	2.9	2.9
N	3.8	3.8
N	3.7	3.7
N	4.0	4.0
N	3.4	3.4
N	3.3	3.3
N	2.9	2.9
N	3.7	3.7
N	4.0	4.0
N	3.6	3.6
N	2.9	2.9
N	3.8	3.8

N	2.2	2.2
N	3.0	3.0
N	2.9	2.9
N	3.8	3.8
N	3.8	3.8
N	3.6	3.6
N	3.6	3.6
N	2.9	2.9
N	2.9	2.9
N	4.0	4.0
N	3.8	3.8
N	4.3	4.3
N	4.3	4.3
N	4.8	4.8
N	4.3	4.3
N	4.3	4.3
N	5.3	5.3
N	4.8	4.8

EPA_UNR	EPA_UNR	EPA_UNR	EPA_ADJ_	EPA_PHEV	Label Subr	GHG 1-10 rating on Ethanol (EPA Deter
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To: richard.thomas@vw.com[richard.thomas@vw.com]
From: Good, David
Sent: Thur 8/22/2013 8:08:55 PM
Subject: FW: re: 2014 FE Guide - Errors in EPA's database; on Aug 29, 2013 I will send error free Verify data to DOE for the 2014 Printed Guide & the web [your voicemail on Thurs 8/22]
VW_Group_2014 FE Guide-all release dates-no-sales-8-15-2013.xlsx

Richard,

This is the dataset for you to review for the 2014 Printed Guide and a reminder to send me info about any "placeholders" needed for the Printed Guide (for 2014MY new technology, alt fuel & diesel vehicles which the Verify label values are not yet available).

Call me if you have questions.

Dave

From: Good, David
Sent: Monday, August 19, 2013 8:21 PM
To: 'richard.thomas@vw.com'
Cc: 'oliver.schmidt@vw.com'; Snyder, Jim
Subject: re: 2014 FE Guide - Errors in EPA's database; on Aug 29, 2013 I will send error free Verify data to DOE for the 2014 Printed Guide & the web

Richard,

re: 2014 FE Guide - Errors in EPA's database; on Aug 29, 2013 I will send error free Verify data to DOE for the 2014 Printed Guide & the web

Attached are the data in Verify as of August 15, 2013. Labels with pea green fill in the first few columns have errors which need to be corrected before I can have the data posted on www.fueleconomy.gov or included in the 2014 Printed Guide.

I will send the data in Verify to DOE on August 29th for both the 2014 Printed Guide and to update www.fueleconomy.gov. The next normal posting of 2014 FE Label data on www.fueleconomy.gov will be on August 29, 2013 to coincide with the schedule for the 2014 Printed Guide.

Reminders:

- Please double check the attached data in Verify for errors, missing labels, etc.
- Please send me a short email when you think the 2014 FE Label data is "good to go."
- August 28, 2013 is the last day to make changes for the 2014 Printed Guide.
- If you enter new label data into Verify before Aug 29, 2013, please double check it carefully for accuracy.
- Don't forget to send me the placeholders for the 2014 Printed Guide in an Excel spreadsheet as soon as possible.

Regarding www.fueleconomy.gov, additionally on Sept 10, 2013, we will post 2014 FE Label data which are error-free in Verify as of August 28, 2013 and had a release date of August 30th thru Sept 10th, 2013. If you need an important 2014 FE Label posted on the web before the next posting, please send me an email message and I'll be glad to have it posted earlier.

Note that as a result of sequestration, Friday, August 30, 2013 is a required furlough day for all EPA employees and we will not be allowed to come to work on that day.

Please make any needed corrections to Verify when you get a chance.

Thanks

From: Good, David
Sent: Friday, August 09, 2013 1:49 PM
To: manufacturers' representatives responsible for 2014 FE Labels

Subject: 2014 EPA/DOE Printed FE Guide - Timing for the 2014 Printed Guide; please start emailing me placeholder information

To manufacturer representatives who handle 2014 FE Labels:

The EPA Guidance letter for the 2014 FE Printed Guide is a little late this year. It should be signed and posted on the web in a week or so.

Attached is the DRAFT schedule for including FE Label information in the 2014 Printed Guide. Also included in the attachment is some information about sending "placeholder" information to me for 2014 model year diesel, hybrid, electric, PHEV and alternative fueled vehicles (including FFVs) for which the final fuel economy values won't be available by August 28, 2013. [Note: The page numbers in the attachment are not correct---it only has three pages.]

Please start emailing me the placeholder information in an Excel spreadsheet as soon as possible. [I don't need placeholder information for 2014 vehicles which the FE Label information has already been entered in EPA's Verify database (or will be entered before August 28, 2013).]

If you have questions about this message, please contact me at 734-214-4450 or by email.

Note that as a result of sequestration, Friday, August 30, 2013 is a required furlough day for all EPA employees and we will not be allowed to come to work on that day.

Thanks

To: Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Tue 8/27/2013 7:17:53 PM
Subject: Verify's Driver trace input

Christi and Karen are both off this week but I looked at the Industry mtg presentation. On the last slide of the Driver trace section, page 63, it says to enter 99.99 if no data.

- Verify will require beginning in 2015 MY (Summer 2013 release)
- If no driver trace data is available
- Enter 99.99
- Driver trace request from EPA more likely
- EPA confirmatory more likely

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Giles, Michael (EEO)
Sent: Tue 8/27/2013 7:19:24 PM
Subject: RE: Verify's Driver trace input

Thanks Jim. I missed that detail from the presentation. I will forward this back to the factories.

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, August 27, 2013 3:18 PM
To: Giles, Michael (EEO)
Subject: Verify's Driver trace input

Christi and Karen are both off this week but I looked at the Industry mtg presentation. On the last slide of the Driver trace section, page 63, it says to enter 99.99 if no data.

- Verify will require beginning in 2015 MY (Summer 2013 release)
  - If no driver trace data is available
    - Enter 99.99
    - Driver trace request from EPA more likely
    - EPA confirmatory more likely

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: richard.thomas@vw.com[richard.thomas@vw.com]
From: Good, David
Sent: Thur 8/29/2013 8:32:30 PM
Subject: re: 2014 FE Guide - Errors in EPA's database as of August 28, 2013
VW_Group_2014 FEGuide-all rel dates-no-sales-8-28-2013.xlsx

Richard,

re: 2014 FE Guide - Errors in EPA's database as of August 28, 2013

Ex. 4 - CBI

soon as possible, and let me know when the errors have been corrected.

I will send the data in Verify to DOE on August 30th for both the 2014 Printed Guide and to update www.fueleconomy.gov. The next normal posting of 2014 FE Label data on www.fueleconomy.gov will be on August 29, 2013 to coincide with the schedule for the 2014 Printed Guide.

If you're on vacation on Friday, you can fix the errors next week.

Thanks

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Thur 8/29/2013 8:32:38 PM
Subject: Automatic reply: 2014 FE Guide - Errors in EPA's database as of August 28, 2013

Thanks for your mail.....I am out of the until office until September 6th.

To: Horton, Garett[Garett.Horton@vw.com]
Cc: Pidgeon, Bill[pidgeon.bill@epa.gov]; Ex. 7 @arb.ca.gov Ex. 7 @arb.ca.gov]
From: Good, David
Sent: Wed 9/4/2013 3:53:15 PM
Subject: RE: In-Use Verification Program - Waiver for Evaporative Testing

Garett,

I thought Bill Pidgeon got back to you on this one. Sorry---I guess I had the lead.

I checked with Ex. 7 CARB and (I think) Bill Pidgeon checked with EPA management---- both Agencies agreed that we are not ready to begin granting individual manufacturer's requests for less IUVP testing based on good in-use performance. If we decided to change both Agency's policy on this, we would have to coordinate with upper management, coordinate with the Industry (for a level playing field), etc.

In general, we believe that the Industry is beginning to make many technical changes to today's vehicles in order to comply with 2012-2025 greenhouse gas/CAFE standards (including engine displacement downsizing, turbo-charging, more use of SIDI, more use of stop-start systems, more diesel vehicles, etc). In addition, EPA recently adopted LEV2 evap standards (and jury is still out on the in-use performance of their evaporative systems). In the near future LEV3 and Tier 3 emission standards are coming. On the in-use fuels side, more vehicles are being operated on low-levels of ethanol (E10, E15) and biodiesel, etc. Sulfur levels are a concern---I think the cap is still 80 PPM in federal states. Operation on low octane in-use fuels (e.g. 86 and lower AKI octane) and operation on poor quality fuels is a concern. So in summary, EPA is concerned about the in-use performance of today's vehicles (for both exhaust and evaporative compliance), perhaps even more than in the past few years.

Thus, we must deny your request.

Call me at 734-214-4450 if you would like to discuss it a little more.

Regards

From: Horton, Garett [mailto:Garett.Horton@vw.com]
Sent: Wednesday, September 04, 2013 9:08 AM
To: Good, David
Subject: RE: In-Use Verification Program - Waiver for Evaporative Testing

Hello again David,

Is there any chance that you have some time on Friday to discuss this?

Regards,

Garett

From: Horton, Garett
Sent: Tuesday, August 20, 2013 11:57 AM
To: good.david@epa.gov
Subject: RE: In-Use Verification Program - Waiver for Evaporative Testing

Good afternoon David,

Do you happen to have any updates on this request?

Regards,

Garett

From: Horton, Garett
Sent: Wednesday, July 31, 2013 5:10 PM
To: 'good.david@epa.gov'
Cc: Glas, Tobias; Johnson, Stuart (EEO); Schmidt, Oliver (EEO)
Subject: In-Use Verification Program - Waiver for Evaporative Testing

Hello Mr. Good,

I am Garett Horton with Volkswagen Group of America, and I work together with Mr. Tobias Glas in the In-Use Verification Program.

Currently we are nearing the end of our MY2008 High Mileage testing program and are planning to start the MY2009 High Mileage program in the next few months. During planning we have identified a possible opportunity for us to reduce the amount of evaporative testing by the reference below:

§ 86.1852-01 Waivers for good in-use emission performance.

The Administrator may waive requirements of this subpart relating to development of emission-related information or test data if the Administrator determines with confidence that the in-use emission test verification data required in § 86.1845-01 are below the applicable emission standards for an appropriate period of time, and that such performance is likely to continue in subsequent model years.

(b) Any waiver granted under paragraph (a) of this section will be granted only if the Administrator determines that the waived requirement is not needed to assure continued emission compliance and the Administrator will have sufficient testing and other information in order to make certification decisions.

(c) Any waiver granted under paragraph (a) of this section would be limited in duration to a period of one model year, unless extended by the Administrator as a result of continued demonstrations of good in-use emission performance.

(d) The Administrator reserves the right to deny or revoke a waiver which may have been granted if he/she determines that the manufacturer no longer qualifies for the waiver.

Attached I have included a short overview of the 9 evaporative families identified and the test results we have received throughout the various years of testing.

With this, we would like to request a waiver for ORVR and SHED testing for the 9 evaporative families listed below for our MY2009 High Mileage In-Use Verification Program. As you can see, we have results dating all the way back to MY2003 which we confidently feel shows sufficient data that these evaporative families will continue to meet compliance requirements throughout the vehicle's full useful life.

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- □□□□□□□□ 9**XR0170358

If you would like to discuss this further, feel free to contact me.

Regards,

Garett Horton

Engineering Analyst

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4231

Cell: (248) 797-1198

Fax: (248) 754-4207

E-Mail: Garett.Horton@vw.com

To: richard.thomas@vw.com[richard.thomas@vw.com]
From: Good, David
Sent: Wed 9/4/2013 10:08:17 PM
Subject: re: 2014 FE Guide - Errors in EPA's data base as of August 29, 2013
VW_Group_2014 FEGuide-final-all rel dates-no-sales-8-29-2013.xlsx

Richard,

re: 2014 FE Guide - Errors in EPA's data base as of August 29, 2013

Ex. 6 and helping me make the last minute corrections to Verify for the 2014 Printed Guide.

Attached are the data in Verify as of August 29, 2013. Labels with pea green fill in the first few columns have errors which need to be corrected before I can have the data posted on www.fueleconomy.gov.

The next normal posting of 2014 FE Label data will be on September 16, 2013 or so (on a monthly schedule where I run the query on the 1st and 15th of the month). Additionally on September 10, 2013, we will post 2014 FE Label data which was error-free in Verify as of August 29, 2013 and had a release date of August 29th thru September 10th, 2013.

If you need an important 2014 FE Label posted on the web before the next posting, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections to Verify when you get a chance---Ex. 6
Ex. 6

Thanks

To: (Garett.Horton@vw.com)[Garett.Horton@vw.com]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Valencia, Thomas@ARB[tvalenci@arb.ca.gov]; O'Cain, John@ARB[jocain@arb.ca.gov]; Ball, Joel[ball.joel@epa.gov]; Good, David[good.david@epa.gov]
From: Pidgeon, Bill
Sent: Tue 9/10/2013 7:10:36 PM
Subject: FW: In-Use Verification Program - Waiver for Evaporative Testing - DRAFT RESPONSE - COMMENTS WELCOME

Hi Garrett,

I am the new EPA IUVP coordinator and apologize for the delayed response. I wasn't aware of your request until recently, and I have been using considerable vacation time.

I have consulted with CARB and my coworkers at EPA and we are all in agreement. We are unable to grant your request for a waiver from evaporative testing at this time. EPA has received requests for IUVP waivers based on good in-use emissions performance in the past, but we have not yet approved any. Until EPA can establish a basis for defining "good in-use emissions performance" that can be applied equitably to all manufacturers, we are not in a position to grant waivers based on in-use performance.

Additionally, for evaporative emissions, only one vehicle is tested from each evaporative family, so granting a waiver based on past performance entails no monitoring of future performance. EPA continues to allow limited exemptions for hard to procure vehicles. We are very aware that there is a strong is desire by many manufacturers for EPA to establish a definition for "good in-use emissions performance" and begin the allowance of some limited exemptions. Although we continue to be very busy, it is our desire to be able to develop guidance that we can share with industry that will outline how we will handle IUVP exemptions for good in-use performance within the next six or so months.

Best wishes,

Bill

****

William M. Pidgeon
Mechanical Engineer
U.S. Environmental Protection Agency
Compliance Division, N69
2000 Traverwood Drive
Ann Arbor, MI 48105-2195
pidgeon.bill@epa.gov

Phone: 734-214-4416
Fax: 734-214-4869

Garett Horton

Engineering Analyst

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4231

Cell: (248) 797-1198

Fax: (248) 754-4207

E-Mail: Garett.Horton@vw.com

From: Good, David
Sent: Wednesday, August 21, 2013 2:05 PM
To: Pidgeon, Bill
Subject: FW: In-Use Verification Program - Waiver for Evaporative Testing

Bill,

Here you go.

Dave

From: Horton, Garett [mailto:Garett.Horton@vw.com]
Sent: Tuesday, August 20, 2013 11:57 AM
To: Good, David
Subject: RE: In-Use Verification Program - Waiver for Evaporative Testing

Good afternoon David,

Do you happen to have any updates on this request?

Regards,

Garett

From: Horton, Garett
Sent: Wednesday, July 31, 2013 5:10 PM
To: 'good.david@epa.gov'
Cc: Glas, Tobias; Johnson, Stuart (EEO); Schmidt, Oliver (EEO)
Subject: In-Use Verification Program - Waiver for Evaporative Testing

Hello Mr. Good,

I am Garett Horton with Volkswagen Group of America, and I work together with Mr. Tobias Glas in the In-Use Verification Program.

Currently we are nearing the end of our MY2008 High Mileage testing program and are planning to start the MY2009 High Mileage program in the next few months. During planning we have identified a possible opportunity for us to reduce the amount of evaporative testing by the reference below:

§ 86.1852-01 Waivers for good in-use emission performance.

The Administrator may waive requirements of this subpart relating to development of emission-related information or test data if the Administrator determines with confidence that the in-use emission test verification data required in § 86.1845-01 are below the applicable emission standards for an appropriate period of time, and that such performance is likely to continue in subsequent model years.

(b) Any waiver granted under paragraph (a) of this section will be granted only if the Administrator determines that the waived requirement is not needed to assure continued emission compliance and the Administrator will have sufficient testing and other information in order to make certification decisions.

(c) Any waiver granted under paragraph (a) of this section would be limited in duration to a period of one model year, unless extended by the Administrator as a result of continued demonstrations of good in-use emission performance.

(d) The Administrator reserves the right to deny or revoke a waiver which may have been granted if he/she determines that the manufacturer no longer qualifies for the waiver.

Attached I have included a short overview of the 9 evaporative families identified and the test results we have received throughout the various years of testing.

With this, we would like to request a waiver for ORVR and SHED testing for the 9 evaporative families listed below for our MY2009 High Mileage In-Use Verification Program. As you can see, we have results dating all the way back to MY2003 which we confidently feel shows sufficient data that these evaporative families will continue to meet compliance requirements throughout the vehicle's full useful life.

- [redacted] 9**XR0110235

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- □□□□□□□□ 9**XR0110237
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- □□□□□□□□ 9**XR0125246
- □□□□□□□□ 9**XR0170273
- □□□□□□□□ 9**XR0230276
- □□□□□□□□ 9**XR0140282
- □□□□□□□□ 9**XR0170358

If you would like to discuss this further, feel free to contact me.

Regards,

Garett Horton

Engineering Analyst

Engineering & Environmental Office

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3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

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Fax: (248) 754-4207

E-Mail: Garett.Horton@vw.com

To: (Garett.Horton@vw.com)[Garett.Horton@vw.com]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Ex. 7 @arb.ca.gov]; Ex. 7 Ex. 7 @ARB Ex. 7 @arb.ca.gov]; Ball, Joel[ball.joel@epa.gov]; Good, David[good.david@epa.gov]
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∀ 9**XR0170273

∀ 9**XR0230276

∀ 9**XR0140282

∀ 9**XR0170358

If you would like to discuss this further, feel free to contact me.

Regards,

Garett Horton

Engineering Analyst

Engineering & Environmental Office

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United States of America

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Cell: (248) 797-1198

Fax: (248) 754-4207

E-Mail: Garett.Horton@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Schmidt, Oliver (EEO)[Oliver.Schmidt@vw.com]; Johnson, Stuart (EEO)[Stuart.Johnson@vw.com]; Tamborra, Nick (EEO)[Nick.Tamborra@vw.com]; Sigelko, Jenny (EEO)[Jenny.Sigelko@vw.com]; Rist, Domenic (I/EA-523)[Domenic.Rist@audi.de]; Rech, Lothar (I/EA-523)[Lothar.Rech@AUDI.DE]; Peter, Juergen (EASZ/1)[juergen.peter@volkswagen.de]; Schlueter, Hannah (EASZ/1)[hannah.schlueter@volkswagen.de]
From: Kata, Leonard (EEO)
Sent: Wed 9/11/2013 6:00:34 PM
Subject: Volkswagen/Audi Meeting with EPA

Hello Jim:

Representatives from Volkswagen AG and Audi AG will be visiting the U.S. in early October 2013. We would like to take this opportunity to meet with you to discuss certification-related topics. The primary emission certification topic is the E-Golf preview for MY2015. Our proposal would be to meet with you, and other EPA staff that you believe would be appropriate, on Monday, October 7, 2013. Please let me know if this is acceptable, and will inform the VW Group participants accordingly.

Nick Tamborra from our department has also been trying to schedule a meeting on the same day with Chris Nevers, to discuss PHEV emission procedures and calculations. As of now, this meeting has not been confirmed. However, it would be convenient if these meetings can be coordinated.

Please let me know if this is acceptable, and will inform the VW Group participants accordingly. A more detailed agenda will follow.

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: Nevers, Chris[nevers.chris@epa.gov]
Cc: Nick.Tamborra@vw.com[Nick.Tamborra@vw.com]
From: Snyder, Jim
Sent: Thur 9/12/2013 9:28:15 PM
Subject: RE: VW PHEV Procedures Meeting

Chris, Nick is local here in Michigan. Rather than wait for the big Cert mtg, maybe we set something up with just him in the next week or so before you leave. It would be a good opportunity for me too given the other testing I have at the end of the month.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Nevers, Chris
Sent: Thursday, September 12, 2013 2:00 PM
To: Snyder, Jim
Subject: RE: VW PHEV Procedures Meeting

I spoke with Nick Tambora . He wanted to attach the PHEV meeting to the cert preview…

From: Snyder, Jim
Sent: Wednesday, September 11, 2013 4:19 PM
To: Nevers, Chris
Subject: RE: VW PHEV Procedures Meeting

If you'll be around to attend sure!

From: Nevers, Chris
Sent: Wednesday, September 11, 2013 4:02 PM
To: Snyder, Jim
Subject: FW: VW PHEV Procedures Meeting

Did you want me to set something up?

From: Tamborra, Nick (EEO) [mailto:Nick.Tamborra@vw.com]
Sent: Monday, August 26, 2013 4:09 AM
To: Nevers, Chris
Cc: Johnson, Stuart (EEO); Kata, Leonard (EEO); Schlueter, Hannah (EASZ/1)
Subject: VW PHEV Procedures Meeting

Hi Chris,

We have some staff coming from Germany in early October. They still have a few open points about PHEV calculations and procedures and would appreciate sitting with you to step through their understanding. Would it be possible to set up a meeting for Oct-7th at EPA?

I would like to try and schedule something now since we are coordinating several meetings during that timeframe.

Thanks for your help,

Nick

Nick Tamborra
Regulatory Affairs

Engineering and Environmental Office

Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4217
Cell: (248) 420-0530
FAX: (248) 754-4207
E-Mail: nick.tamborra@vw.com

From: Snyder, Jim
Required Attendees: Snyder, Jim; Kata, Leonard (EEO); Wehrly, Linc; Ball, Joel; Ott, William; Dalton, Joel; Pidgeon, Bill; Anderson, Tom
Optional Attendees: Schmidt, Oliver (EEO); Rist, Domenic (I/EA-523); Handschel, Uwe (I/EA-523); Tamborra, Nick (EEO)
Location: AA-Room-Office-C35-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Volkswagen/Audi Meeting with EPA
Start Date/Time: Mon 10/7/2013 1:30:00 PM
End Date/Time: Mon 10/7/2013 3:30:00 PM

Representatives from Volkswagen AG and Audi AG will be visiting the U.S. in early October 2013. We would like to take this opportunity to meet with you to discuss certification-related topics. The primary emission certification topic is the E-Golf preview for MY2015.

There may also be discussion regarding PHEV testing and calculations unless we have that at an earlier mtg.

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Required Attendees: Kata, Leonard (EEO); Wehrly, Linc; Ball, Joel; Ott, William; Dalton, Joel; Pidgeon, Bill; Anderson, Tom
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Importance: Normal
Subject: Volkswagen/Audi Meeting with EPA
Start Date/Time: Mon 10/7/2013 1:30:00 PM
End Date/Time: Mon 10/7/2013 3:30:00 PM

When: Monday, October 07, 2013 9:30 AM-11:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: AA-Room-Office-C35-ConfRoom/AA-OTAQ-OFFICE

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*~*~*~*

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From: Kata, Leonard (EEO)
Location: AA-Room-Office-C35-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Accepted: Volkswagen/Audi Meeting with EPA
Start Date/Time: Mon 10/7/2013 1:30:00 PM
End Date/Time: Mon 10/7/2013 3:30:00 PM

From: Schmidt, Oliver (EEO)
Location: AA-Room-Office-C35-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Tentative: FW: Volkswagen/Audi Meeting with EPA
Start Date/Time: Mon 10/7/2013 1:30:00 PM
End Date/Time: Mon 10/7/2013 3:30:00 PM

From: Tamborra, Nick (EEO)
Location: AA-Room-Office-C35-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Accepted: FW: Volkswagen/Audi Meeting with EPA
Start Date/Time: Mon 10/7/2013 1:30:00 PM
End Date/Time: Mon 10/7/2013 3:30:00 PM

EPA comm	VERIFY cc	Model Yr (Mfr Name	Division (t	Carline	Verify Mfr	Index (Mo	Eng Displ	# Cyl
		2014 Audi	Audi	A4	ADX	67	2.0	4
		2014 Audi	Audi	A4 quattro	ADX	64	2.0	4
		2014 Audi	Audi	A4 quattro	ADX	71	2.0	4
		2014 Audi	Audi	A5 Cabriol	ADX	68	2.0	4
		2014 Audi	Audi	A5 Cabriol	ADX	66	2.0	4
		2014 Audi	Audi	A5 quattro	ADX	65	2.0	4
		2014 Audi	Audi	A5 quattro	ADX	72	2.0	4
		2014 Audi	Audi	A6	ADX	69	2.0	4
		2014 Audi	Audi	A6 quattro	ADX	70	2.0	4
		2014 Audi	Audi	A6 quattro	ADX	54	3.0	6
Diesel;		2014 Audi	Audi	A6 quattro	ADX	15	3.0	6
Diesel;		2014 Audi	Audi	A7 quattro	ADX	16	3.0	6
		2014 Audi	Audi	A7 quattro	ADX	53	3.0	6
		2014 Audi	Audi	A8	ADX	51	3.0	6
		2014 Audi	Audi	A8	ADX	18	4.0	8
Diesel;		2014 Audi	Audi	A8L	ADX	1	3.0	6
		2014 Audi	Audi	A8L	ADX	52	3.0	6
		2014 Audi	Audi	A8L	ADX	17	4.0	8
		2014 Audi	Audi	A8L	ADX	61	6.3	12
		2014 Audi	Audi	allroad qu	ADX	63	2.0	4
		2014 Audi	Audi	Q5	ADX	62	2.0	4
		2014 Audi	Audi	Q5	ADX	60	3.0	6
Diesel;		2014 Audi	Audi	Q5	ADX	14	3.0	6
Hybrid;		2014 Audi	Audi	Q5 Hybrid	ADX	50	2.0	4
Diesel;		2014 Audi	Audi	Q7	ADX	24	3.0	6
		2014 Audi	Audi	Q7	ADX	36	3.0	6
		2014 Audi	Audi	R8	ADX	5	4.2	8
		2014 Audi	Audi	R8	ADX	9	4.2	8
		2014 Audi	Audi	R8	ADX	3	5.2	10
		2014 Audi	Audi	R8	ADX	7	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	4	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	8	4.2	8
		2014 Audi	Audi	R8 Spyder	ADX	2	5.2	10
		2014 Audi	Audi	R8 Spyder	ADX	6	5.2	10
		2014 Audi	Audi	RS5	ADX	28	4.2	8
		2014 Audi	Audi	RS5 Cabrio	ADX	29	4.2	8
		2014 Audi	Audi	RS7	ADX	22	4.0	8
		2014 Audi	Audi	S4	ADX	55	3.0	6
		2014 Audi	Audi	S4	ADX	58	3.0	6
		2014 Audi	Audi	S5	ADX	56	3.0	6
		2014 Audi	Audi	S5	ADX	59	3.0	6
		2014 Audi	Audi	S5 Cabriole	ADX	57	3.0	6
		2014 Audi	Audi	S6	ADX	21	4.0	8
		2014 Audi	Audi	S7	ADX	20	4.0	8

	2014	Audi	Audi	S8	ADX	19	4.0	8
	2014	Audi	Audi	SQ5	ADX	106	3.0	6
	2014	Audi	Audi	TT Coupe c	ADX	38	2.0	4
	2014	Audi	Audi	TT Roadste	ADX	39	2.0	4
	2014	Bentley	Bentley M	Continenta	BEX	26	4.0	8
	2014	Bentley	Bentley M	Continenta	BEX	13	6.0	12
	2014	Bentley	Bentley M	Continenta	BEX	12	6.0	12
	2014	Bentley	Bentley M	Continenta	BEX	25	4.0	8
	2014	Bentley	Bentley M	Continenta	BEX	11	6.0	12
	2014	Bentley	Bentley M	Flying Spur	BEX	10	6.0	12
	2014	Bentley	Bentley M	Mulsanne	BEX	109	6.8	8
	2014	Bugatti	Bugatti	Veyron	BGT	27	8.0	16
	2014	Lamborghi	Lamborghi	Aventador	NLX	92	6.5	12
	2014	Lamborghi	Lamborghi	Aventador	NLX	93	6.5	12
	2014	Lamborghi	Lamborghi	Aventador	NLX	94	6.5	12
	2014	Lamborghi	Lamborghi	Gallardo C	NLX	32	5.2	10
	2014	Lamborghi	Lamborghi	Gallardo C	NLX	34	5.2	10
	2014	Lamborghi	Lamborghi	Gallardo S	NLX	33	5.2	10
	2014	Lamborghi	Lamborghi	Gallardo S	NLX	35	5.2	10
Diesel;	2014	Volkswage	Volkswage	BEETLE	VWX	46	2.0	4
	2014	Volkswage	Volkswage	BEETLE	VWX	76	2.0	4
Diesel;	2014	Volkswage	Volkswage	BEETLE	VWX	48	2.0	4
	2014	Volkswage	Volkswage	BEETLE	VWX	82	2.0	4
	2014	Volkswage	Volkswage	BEETLE	VWX	99	2.5	5
	2014	Volkswage	Volkswage	BEETLE	VWX	102	2.5	5
Diesel;	2014	Volkswage	Volkswage	BEETLE CO	VWX	47	2.0	4
	2014	Volkswage	Volkswage	BEETLE CO	VWX	77	2.0	4
Diesel;	2014	Volkswage	Volkswage	BEETLE CO	VWX	49	2.0	4
	2014	Volkswage	Volkswage	BEETLE CO	VWX	83	2.0	4
	2014	Volkswage	Volkswage	BEETLE CO	VWX	100	2.5	5
	2014	Volkswage	Volkswage	CC	VWX	74	2.0	4
	2014	Volkswage	Volkswage	CC	VWX	75	2.0	4
	2014	Volkswage	Volkswage	CC 4MOTI	VWX	31	3.6	6
	2014	Volkswage	Volkswage	Eos	VWX	78	2.0	4
Diesel;	2014	Volkswage	Volkswage	GOLF	VWX	42	2.0	4
Diesel;	2014	Volkswage	Volkswage	GOLF	VWX	45	2.0	4
	2014	Volkswage	Volkswage	GOLF	VWX	98	2.5	5
	2014	Volkswage	Volkswage	GTI	VWX	107	2.0	4
	2014	Volkswage	Volkswage	GTI	VWX	108	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	88	1.8	4
	2014	Volkswage	Volkswage	Jetta	VWX	86	1.8	4
Diesel;	2014	Volkswage	Volkswage	Jetta	VWX	41	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	90	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	103	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	104	2.0	4

Diesel;	2014	Volkswage	Volkswage	Jetta	VWX	44	2.0	4
	2014	Volkswage	Volkswage	Jetta	VWX	91	2.0	4
Hybrid;	2014	Volkswage	Volkswage	Jetta Hybri	VWX	105	1.4	4
Diesel;	2014	Volkswage	Volkswage	JETTA SPO	VWX	40	2.0	4
Diesel;	2014	Volkswage	Volkswage	JETTA SPO	VWX	43	2.0	4
	2014	Volkswage	Volkswage	JETTA SPO	VWX	97	2.5	5
	2014	Volkswage	Volkswage	JETTA SPO	VWX	101	2.5	5
	2014	Volkswage	Volkswage	Passat	VWX	89	1.8	4
	2014	Volkswage	Volkswage	Passat	VWX	87	1.8	4
Diesel;	2014	Volkswage	Volkswage	Passat	VWX	84	2.0	4
Diesel;	2014	Volkswage	Volkswage	Passat	VWX	85	2.0	4
	2014	Volkswage	Volkswage	Passat	VWX	95	2.5	5
	2014	Volkswage	Volkswage	Passat	VWX	96	2.5	5
	2014	Volkswage	Volkswage	Passat	VWX	30	3.6	6
	2014	Volkswage	Volkswage	TIGUAN	VWX	80	2.0	4
	2014	Volkswage	Volkswage	TIGUAN	VWX	81	2.0	4
	2014	Volkswage	Volkswage	TIGUAN 4M	VWX	79	2.0	4
Diesel; Error--the unadjusted	2014	Volkswage	Volkswage	TOUAREG	VWX	23	3.0	6
	2014	Volkswage	Volkswage	TOUAREG	VWX	73	3.6	6
Hybrid;	2014	Volkswage	Volkswage	Touareg H	VWX	37	3.0	6

Trans as I	City FE (G	Hwy FE (C	Comb FE	Low'd City	Low'd HW	Low'd Cor	City Unad	Hwy Unad	Comb Una
Auto(AV-S	24	32	27				30.1192	44.4335	35.2258
Auto(S8)	20	29	24				25.8050	40.5698	30.8588
Manual(M	22	32	26				27.6240	43.9699	33.1736
Auto(AV-S	24	32	27				30.1192	44.4335	35.2258
Auto(S8)	20	29	24				25.8050	40.5698	30.8588
Auto(S8)	20	29	24				25.8050	40.5698	30.8588
Manual(M	22	32	26				27.6240	43.9699	33.1736
Auto(AV-S	25	33	28				31.4000	46.9000	36.8857
Auto(S8)	20	29	23				24.8000	40.5000	30.0404
Auto(S8)	18	27	22				23.1369	38.1000	28.1037
Auto(S8)	24	38	29				30.6987	52.4000	37.7304
Auto(S8)	24	38	29				30.6987	52.4000	37.7304
Auto(S8)	18	28	21				22.3364	37.2698	27.2497
Auto(S8)	18	28	21				22.3364	37.2698	27.2497
Auto(S8)	17	28	21				21.7885	38.4000	27.0553
Auto(S8)	24	36	28				29.9399	51.4000	36.8664
Auto(S8)	18	28	21				22.3364	37.2698	27.2497
Auto(S8)	16	26	19				19.8586	33.9000	24.4081
Auto(S8)	13	21	16				15.9000	25.7000	19.1935
Auto(S8)	20	27	23				25.2000	37.3000	29.5075
Auto(S8)	20	28	23				24.8000	38.6000	29.5548
Auto(S8)	18	26	21				22.8446	35.5000	27.2096
Auto(S8)	24	31	27				29.1832	43.5000	34.2568
Auto(S8)	24	30	26				30.4000	39.9000	34.0480
Auto(S8)	19	28	22				22.8000	39.1000	28.0649
Auto(S8)	16	22	18				19.4000	30.0000	23.0678
Auto(AM-S	14	23	17				16.4710	29.7396	20.6087
Manual(M	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S	13	22	16				15.4000	28.8067	19.4796
Manual(M	12	19	14				13.7000	23.3840	16.8379
Auto(AM-S	14	23	17				16.4710	29.7396	20.6087
Manual(M	11	20	14				13.6677	24.5360	17.0703
Auto(AM-S	13	22	16				15.4000	28.8067	19.4796
Manual(M	12	19	14				13.7000	23.3840	16.8379
Auto(AM-S	16	23	18				19.1000	30.0000	22.8332
Auto(AM-S	16	22	18				19.2000	28.9000	22.6159
Auto(S8)	16	27	19				19.1000	35.3000	24.0710
Auto(AM-S	18	28	21				22.4000	35.8000	26.9372
Manual(M	17	26	20				20.0000	33.4000	24.4063
Auto(AM-S	18	28	21				22.4000	35.8000	26.9372
Manual(M	17	26	20				20.0000	33.4000	24.4063
Auto(AM-S	18	26	21				22.1000	34.7000	26.4165
Auto(AM-S	17	27	20				20.7158	35.0541	25.3890
Auto(AM-S	17	27	20				20.7158	35.0541	25.3890

Auto(S8)	15	26	19	19.0000	33.3000	23.5511
Auto(S8)	16	23	19	19.7468	32.4000	23.9570
Auto(AM-S	22	31	26	28.3321	42.1097	33.2237
Auto(AM-S	22	31	26	28.3321	42.1097	33.2237
Auto(S8)	15	24	18	19.0000	33.5000	23.5959
Auto(S8)	12	21	15	15.4000	28.3000	19.3741
Auto(S8)	12	20	15	14.4000	26.7000	18.1658
Auto(S8)	14	24	17	17.4000	30.8000	21.6358
Auto(S8)	12	20	15	14.4000	26.7000	18.1658
Auto(S8)	12	20	15	14.4000	26.7000	18.1658
Auto(S8)	11	18	13	12.9000	21.8000	15.8033
Auto(AM-S	8	15	10	10.0000	17.9000	12.4782
Auto(AM-S	11	18	13	12.6000	25.2000	16.2581
Auto(AM-S	10	16	12	11.5000	21.2000	14.4817
Auto(AM-S	11	17	13	12.5000	22.7000	15.6681
Auto(AM-S	13	20	16	16.1000	25.4000	19.2760
Manual(M6	12	20	15	14.0000	24.0000	17.2308
Auto(AM-S	13	20	16	16.0000	25.4000	19.1970
Manual(M6	12	20	14	13.0000	22.6000	16.0722
Auto(AM-S	29	39	32	37.3000	55.3000	43.7011
Auto(AM-S	24	30	26	29.1673	42.3326	33.9134
Manual(M	28	41	32	36.0825	58.0474	43.4875
Manual(M	23	31	26	27.8385	43.7643	33.2899
Auto(S6)	22	29	25	27.3682	39.0016	31.6112
Manual(M	22	31	25	26.4371	42.9104	31.9580
Auto(AM-S	28	37	31	36.4000	51.9000	42.0514
Auto(AM-S	23	29	25	28.8646	40.8000	33.2404
Manual(M	28	41	32	36.0825	58.0474	43.4875
Manual(M	23	31	26	27.8385	43.7643	33.2899
Auto(S6)	21	27	23	26.4827	37.7774	30.5996
Auto(AM-S	22	31	25	26.9760	42.4872	32.2790
Manual(M	21	32	25	25.7137	43.8700	31.5986
Auto(S6)	17	25	20	20.5000	33.5000	24.8373
Auto(AM-S	22	30	25	27.5000	41.5000	32.4219
Auto(AM-S	30	42	34	39.0952	59.2783	46.1691
Manual(M	30	42	34	38.7301	59.7524	46.0153
Auto(S6)	23	30	26	27.0790	41.9473	32.2178
Auto(AM-S	24	32	27	29.6000	42.9000	34.3990
Manual(M	21	31	25	25.7000	40.9000	30.8611
Auto(S6)	25	36	29	31.4506	49.1933	37.5441
Manual(M	26	36	30	32.3820	49.5230	38.3561
Auto(AM-S	30	42	34	39.0952	59.2783	46.1691
Auto(AM-S	24	32	27	29.5629	44.4634	34.8128
Auto(S6)	23	29	25	28.1000	41.4990	32.8768
Manual(M	24	34	28	28.8000	46.2000	34.6771

Manual(M	30	42	34	38.7301	59.7524	46.0153
Manual(M	23	33	26	28.2818	45.1635	34.0010
Auto(AM-S	42	48	45	57.5000	65.3000	60.7663
Auto(AM-S	29	39	33	37.6000	56.2000	44.1798
Manual(M	30	42	34	38.7301	59.7524	46.0153
Auto(S6)	23	30	26	27.0790	41.9473	32.2178
Manual(M	23	33	26	26.2086	44.0648	32.0537
Auto(S6)	24	34	28	29.9264	48.2897	36.1048
Manual(M	24	35	28	30.2365	48.2157	36.3333
Auto(AM-S	30	40	34	37.9000	56.8000	44.5744
Manual(M	31	43	35	38.2000	62.8000	46.3746
Auto(S6)	22	31	25	27.0521	40.8408	31.8984
Manual(M	22	32	26	26.1092	42.8028	31.6669
Auto(AM-S	20	28	23	23.9000	37.3000	28.5088
Auto(S6)	21	26	23	25.9873	36.0386	29.7169
Manual(M	18	26	21	21.7000	35.8000	26.3745
Auto(S6)	20	26	23	25.7719	36.0257	29.5577
Auto(S8)	20	29	23	24.1000	22.4000	23.3041
Auto(S8)	17	23	19	21.3000	31.6000	24.9612
Auto(S8)	20	24	21	25.1000	33.1000	28.1631

e labs' values and the unadjusted values and revise Verify if needed. I think the same error occurred for the 2013 T

City Unrd	Hwy Unrd	Comb Unr	Guzzler?	Air Aspir I	Air Aspira	Trans	Trans Des	Trans, Otl	# Gears
23.5414	31.5409	26.5744		TC	Turbochar	SCV	Selectable		8
20.4020	28.9490	23.5279		TC	Turbochar	SA	Semi-Auto		8
22.2425	32.0861	25.8049		TC	Turbochar	M	Manual		6
23.5414	31.5409	26.5744		TC	Turbochar	SCV	Selectable		8
20.4020	28.9490	23.5279		TC	Turbochar	SA	Semi-Auto		8
20.4020	28.9490	23.5279		TC	Turbochar	SA	Semi-Auto		8
22.2425	32.0861	25.8049		TC	Turbochar	M	Manual		6
24.5044	32.5529	27.5721		TC	Turbochar	SCV	Selectable		8
19.6106	28.8603	22.9156		TC	Turbochar	SA	Semi-Auto		8
18.3949	27.2332	21.5408		SC	Supercha	SA	Semi-Auto		8
24.4094	38.0485	29.1042		TC	Turbochar	SA	Semi-Auto		8
24.4094	38.0485	29.1042		TC	Turbochar	SA	Semi-Auto		8
17.7150	27.5586	21.1077		SC	Supercha	SA	Semi-Auto		8
17.7150	27.5586	21.1077		SC	Supercha	SA	Semi-Auto		8
17.2616	28.4347	20.9695		TC	Turbochar	SA	Semi-Auto		8
23.8727	36.3252	28.2271		TC	Turbochar	SA	Semi-Auto		8
17.7150	27.5586	21.1077		SC	Supercha	SA	Semi-Auto		8
16.0273	25.8053	19.3219		TC	Turbochar	SA	Semi-Auto		8
13.1387	20.6025	15.6978	G	NA	Naturally A	SA	Semi-Auto		8
19.9584	26.6824	22.5112		TC	Turbochar	SA	Semi-Auto		8
19.6619	27.5771	22.5781		TC	Turbochar	SA	Semi-Auto		8
17.8443	25.5746	20.6536		SC	Supercha	SA	Semi-Auto		8
23.6266	31.3636	26.5783		TC	Turbochar	SA	Semi-Auto		8
24.0075	29.7936	26.3065		TC	Turbochar	SA	Semi-Auto		8
18.7400	27.6200	21.9099		TC	Turbochar	SA	Semi-Auto		8
15.5983	21.6157	17.8322		SC	Supercha	SA	Semi-Auto		8
13.5719	22.6008	16.5465	G	NA	Naturally A	AMS	Automatec		7
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6
12.9942	22.2057	15.9766	G	NA	Naturally A	AMS	Automatec		7
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6
13.5719	22.6008	16.5465	G	NA	Naturally A	AMS	Automatec		7
11.4775	20.2021	14.2461	G	NA	Naturally A	M	Manual		6
12.9942	22.2057	15.9766	G	NA	Naturally A	AMS	Automatec		7
11.7089	19.3501	14.2392	G	NA	Naturally A	M	Manual		6
15.7409	23.3075	18.4339		NA	Naturally A	AMS	Automatec		7
15.8793	22.1836	18.2078		NA	Naturally A	AMS	Automatec		7
15.5443	26.5981	19.1200		TC	Turbochar	SA	Semi-Auto		8
18.1170	27.5580	21.4190		SC	Supercha	AMS	Automatec		7
17.0438	26.0230	20.1767		SC	Supercha	M	Manual		6
18.1170	27.5580	21.4190		SC	Supercha	AMS	Automatec		7
17.0438	26.0230	20.1767		SC	Supercha	M	Manual		6
17.6699	25.9530	20.6333		SC	Supercha	AMS	Automatec		7
16.7439	26.8255	20.1520		TC	Turbochar	AMS	Automatec		7
16.7439	26.8255	20.1520		TC	Turbochar	AMS	Automatec		7

15.2801	25.5632	18.6574	TC	Turbochar¡SA	Semi-Auto	8
16.2518	22.7154	18.6384	SC	Supercha¡SA	Semi-Auto	8
22.3380	31.0856	25.5769	TC	Turbochar¡AMS	Automatec	6
22.3380	31.0856	25.5769	TC	Turbochar¡AMS	Automatec	6
15.0109	24.4645	18.1706	TC	Turbochar¡SA	Semi-Auto	8
12.4737	21.0866	15.2827G	TC	Turbochar¡SA	Semi-Auto	8
12.0228	20.0478	14.6643G	TC	Turbochar¡SA	Semi-Auto	8
14.0639	23.9773	17.2766G	TC	Turbochar¡SA	Semi-Auto	8
12.0228	20.0478	14.6643G	TC	Turbochar¡SA	Semi-Auto	8
12.0228	20.0478	14.6643G	TC	Turbochar¡SA	Semi-Auto	8
10.5402	17.7129	12.8889G	TC	Turbochar¡SA	Semi-Auto	8
8.4232	14.7698	10.4424G	TC	Turbochar¡AMS	Automatec	7
10.6055	18.4729	13.1199G	NA	Naturally AAMS	Automated	7
9.7957	16.2453	11.9264G	NA	Naturally ¡AMS	Automatec	7
10.6353	16.9743	12.7836G	NA	Naturally AAMS	Automated	7
13.4655	19.7573	15.7180G	NA	Naturally ¡AMS	Automatec	6
12.0883	19.9831	14.7021G	NA	Naturally AM	Manual	6
13.3954	19.7741	15.6701G	NA	Naturally AAMS	Automated	6
11.5388	19.5451	14.1465G	NA	Naturally AM	Manual	6
28.6469	38.8700	32.4925	TC	Turbochar¡AMS	Automatec	6
23.6914	29.5911	26.0264	TC	Turbochar¡AMS	Automatec	6
27.8088	40.6616	32.4203	TC	Turbochar¡M	Manual	6
22.6973	30.6126	25.6859	TC	Turbochar¡M	Manual	6
22.2726	28.5657	24.7236	NA	Naturally ¡SA	Semi-Auto	6
21.7373	30.6904	25.0221	NA	Naturally ¡M	Manual	5
28.0188	36.6005	31.3238	TC	Turbochar¡AMS	Automatec	6
22.7003	28.5550	25.0076	TC	Turbochar¡AMS	Automatec	6
27.8088	40.6616	32.4203	TC	Turbochar¡M	Manual	6
22.6973	30.6126	25.6859	TC	Turbochar¡M	Manual	6
21.2156	26.9734	23.4701	NA	Naturally ¡SA	Semi-Auto	6
21.8712	31.0324	25.2218	TC	Turbochar¡AMS	Automatec	6
20.7932	31.7441	24.6143	TC	Turbochar¡M	Manual	6
16.9415	25.2190	19.8774	NA	Naturally ¡SA	Semi-Auto	6
21.7634	30.1121	24.8658	TC	Turbochar¡AMS	Automatec	6
29.8913	41.5066	34.1978	TC	Turbochar¡AMS	Automatec	6
29.6183	41.8508	34.1040	TC	Turbochar¡M	Manual	6
23.0923	30.3667	25.8824	NA	Naturally ¡SA	Semi-Auto	6
24.0930	32.3390	27.2159	TC	Turbochar¡AMS	Automatec	6
21.0437	30.6792	24.5074	TC	Turbochar¡M	Manual	6
25.2476	35.5136	29.0230	TC	Turbochar¡SA	Semi-Auto	6
25.8912	35.6271	29.5215	TC	Turbochar¡M	Manual	5
29.8913	41.5066	34.1978	TC	Turbochar¡AMS	Automatec	6
23.5751	31.8631	26.7004	TC	Turbochar¡AMS	Automatec	6
23.1009	29.1554	25.4822	NA	Naturally ¡SA	Semi-Auto	6
24.3944	33.6309	27.8344	NA	Naturally ¡M	Manual	5

29.6183	41.8508	34.1040	TC	Turbochar¡M	Manual	6
22.8967	32.6145	26.4421	TC	Turbochar¡M	Manual	6
42.0354	48.2310	44.6144	TC	Turbochar¡AMS	Automatec	7
28.8556	39.4682	32.8278	TC	Turbochar¡AMS	Automatec	6
29.6183	41.8508	34.1040	TC	Turbochar¡M	Manual	6
23.0923	30.3667	25.8824	NA	Naturally ASA	Semi-Auto	6
22.5184	33.2675	26.3496	NA	Naturally AM	Manual	5
24.0436	33.5272	27.5504	TC	Turbochar¡SA	Semi-Auto	6
24.4546	34.5968	28.1709	TC	Turbochar¡M	Manual	5
30.4633	40.2057	34.1916	TC	Turbochar¡AMS	Automatec	6
30.8024	42.6219	35.1943	TC	Turbochar¡M	Manual	6
22.1883	30.6704	25.3422	NA	Naturally ASA	Semi-Auto	6
21.9815	32.1245	25.6219	NA	Naturally AM	Manual	5
19.7174	27.8048	22.6868	NA	Naturally AAMS	Automatec	6
20.5496	25.7855	22.6161	TC	Turbochar¡SA	Semi-Auto	6
18.1488	26.2617	21.0791	TC	Turbochar¡M	Manual	6
20.3813	25.8032	22.5097	TC	Turbochar¡SA	Semi-Auto	6
19.8496	28.9961	22.9829	TC	Turbochar¡SA	Semi-Auto	8
17.0411	22.7325	19.2048	NA	Naturally ASA	Semi-Auto	8
19.8843	23.7762	21.4655	SC	Supercha¡SA	Semi-Auto	8

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Lockup Tc	Trans Cre	Drive Sys	Drive Des	Primary B	Max Ethar	Max Biodi	Range1 - I	Fuel Usag	Fuel Usag
MT with pad	dles)	F	2-Wheel D	EADXV02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		406	GP	Gasoline (F
N	N	A	All Wheel I	EADXV02.(	10			GP	Gasoline (F
MT with pad	dles)	F	2-Wheel D	EADXV02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		406	GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		406	GP	Gasoline (F
N	N	A	All Wheel I	EADXV02.(	10			GP	Gasoline (F
MT with pad	dles)	F	2-Wheel D	EADXV02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXV02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.04UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXJ03.04UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXV04.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.04UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXV04.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EVWXV06.	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		389	GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ02.0	85		455	GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXJ03.04UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXT02.(	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXT03.03UG			5	DU	Diesel, ultr
Y	N	A	All Wheel I	EADXT03.(	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.2	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXV04.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV05.2	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXV05.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.2	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXV04.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV05.2	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXV05.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.2	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.2	10			GP	Gasoline (F
Y	N	A	All Wheel I	EADXV04.(	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
N	N	A	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXJ03.0	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.(	10			GP	Gasoline (F
tomated Ma	nual with	paddles)	All Wheel I	EADXV04.(	10			GP	Gasoline (F

Y	N	A	All Wheel IEADXV04.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEADXJ03.0	15		GP	Gasoline (F
tomated Manual with paddles)	N	A	All Wheel IEADXV02.(	10		GP	Gasoline (F
tomated Manual with paddles)	N	A	All Wheel IEADXV02.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEADXV04.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEBEXV06.0	85	357	GP	Gasoline (F
Y	N	A	All Wheel IEBEXV06.0	85	357	GP	Gasoline (F
Y	N	A	All Wheel IEADXV04.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEBEXV06.0	85	357	GP	Gasoline (F
Y	N	A	All Wheel IEBEXV06.0	85	357	GP	Gasoline (F
Y	N	R	2-Wheel DEBEXV06.8	10		GP	Gasoline (F
tomated Manual with paddles)	N	A	All Wheel IEBGTV08.(	10		GPR	Gasoline (F
tomated Manual with paddles)	N	A	All Wheel IENLXV06.:	10		GPR	Gasoline (I
tomated Manual with paddles)	N	A	All Wheel IENLXV06.5	10		GPR	Gasoline (F
tomated Manual with paddles)	N	A	All Wheel IENLXV06.:	10		GPR	Gasoline (I
tomated Manual with paddles)	N	A	All Wheel IEADXV05.2	10		GP	Gasoline (F
N	N	A	All Wheel IEADXV05.	10		GP	Gasoline (I
tomated Manual with paddles)	N	A	All Wheel IEADXV05.	10		GP	Gasoline (I
N	N	A	All Wheel IEADXV05.	10		GP	Gasoline (I
tomated Manual with paddles)	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
tomated Manual with paddles)	N	F	2-Wheel DEVWXV02.	10		GP	Gasoline (F
N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
tomated Manual with paddles)	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
tomated Manual with paddles)	N	F	2-Wheel DEVWXV02.	10		GP	Gasoline (F
N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
tomated Manual with paddles)	N	F	2-Wheel DEVWXJ02.(	10		GP	Gasoline (F
N	N	F	2-Wheel DEVWXJ02.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEVWXV03.	10		GP	Gasoline (F
tomated Manual with paddles)	N	F	2-Wheel DEVWXV02.	10		GP	Gasoline (F
tomated Manual with paddles)	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
tomated Manual with paddles)	N	F	2-Wheel DEADXV02.(	10		GP	Gasoline (F
N	N	F	2-Wheel DEADXV02.(	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
tomated Manual with paddles)	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
tomated Manual with paddles)	N	F	2-Wheel DEVWXV02.	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F

N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXV01.	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.0U5N		5	DU	Diesel, ultr
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
Y	N	F	2-Wheel DEVWXV02.0U4S		5	DU	Diesel, ultr
N	N	F	2-Wheel DEVWXV02.0U4S		5	DU	Diesel, ultr
Y	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
N	N	F	2-Wheel DEVWXV02.	10		G	Gasoline (F
Y	N	F	2-Wheel DEVWXV03.	10		GP	Gasoline (F
Y	N	F	2-Wheel DEVWXJ02.(	10		GP	Gasoline (F
N	N	F	2-Wheel DEVWXJ02.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEVWXJ02.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEADXT03.02UG		5	DU	Diesel, ultr
Y	N	A	All Wheel IEVWXT03.(	10		GP	Gasoline (F
Y	N	A	All Wheel IEVWXT03.(	10		GP	Gasoline (F

Fuel Unit	Fuel Unit	Gas Guzz	Gas Guzz	2Dr Pass	2Dr Lugg	4Dr Pass	4Dr Lugg	Htchbk Pa	Htchbk Lu
MPG	Miles per gal	Not exempt				91	12		
MPG	Miles per gal	Not exempt				91	12		
MPG	Miles per gal	Not exempt				91	12		
MPG	Miles per gal	Not exempt	81	10					
MPG	Miles per gal	Not exempt	81	10					
MPG	Miles per gal	Not exempt	84	12					
MPG	Miles per gal	Not exempt	84	12					
MPG	Miles per gal	Not exempt				98	16		
MPG	Miles per gal	Not exempt				98	16		
MPG	Miles per gal	Not exempt				98	16		
MPG	Miles per gal	Not exempt				98	16		
MPG	Miles per gal	Not exempt						94	25
MPG	Miles per gal	Not exempt						94	25
MPG	Miles per gal	Not exempt				100	15		
MPG	Miles per gal	Not exempt				100	15		
MPG	Miles per gal	Not exempt				107	15		
MPG	Miles per gal	Not exempt				107	15		
MPG	Miles per gal	Not exempt				107	15		
MPG	Miles per gal	Not exempt				107	15		
MPG	Miles per gal	Not exempt				90	28		
MPG	Miles per gal	Truck							
MPG	Miles per gal	Truck							
MPG	Miles per gal	Truck							
MPG	Miles per gal	Truck							
MPG	Miles per gal	Truck							
MPG	Miles per gal	Truck							
MPG	Miles per gal	Not exempt							
MPG	Miles per gal	Not exempt							
MPG	Miles per gal	Not exempt							
MPG	Miles per gal	Not exempt							
MPG	Miles per gal	Not exempt							
MPG	Miles per gal	Not exempt							
MPG	Miles per gal	Not exempt							
MPG	Miles per gal	Not exempt							
MPG	Miles per gal	Not exempt							
MPG	Miles per gal	Not exempt	84	13					
MPG	Miles per gal	Not exempt	81	10					
MPG	Miles per gal	Not exempt						94	25
MPG	Miles per gal	Not exempt				90	13		
MPG	Miles per gal	Not exempt				90	13		
MPG	Miles per gal	Not exempt	84	13					
MPG	Miles per gal	Not exempt	84	13					
MPG	Miles per gal	Not exempt	81	10					
MPG	Miles per gal	Not exempt				98	16		
MPG	Miles per gal	Not exempt						94	25

MPG (Unleaded Recommended)	miles per gal	Not exempt			100	15			
MPG (Unleaded Recommended)	miles per gal	Truck							
MPG (Unleaded Recommended)	miles per gal	Not exempt	74	13					
MPG (Unleaded Recommended)	miles per gal	Not exempt							
MPG (Unleaded Recommended)	miles per gal	Not exempt	89	11					
MPG (Unleaded Recommended)	miles per gal	Not exempt	89	11					
MPG (Unleaded Recommended)	miles per gal	Not exempt	86	7					
MPG (Unleaded Recommended)	miles per gal	Not exempt	86	7					
MPG (Unleaded Recommended)	miles per gal	Not exempt	86	7					
MPG (Unleaded Recommended)	miles per gal	Not exempt	102	13					
MPG (Unleaded Recommended)	miles per gal	Not exempt			101	11			
MPG (Unleaded Required)	miles per gal	Not exempt							
MPG (Unleaded Required)	miles per gal	Not exempt							
MPG (Unleaded Required)	miles per gal	Not exempt							
MPG (Unleaded Required)	miles per gal	Not exempt							
MPG (Unleaded Recommended

ulfur (15 ppm maximum)	MPG (miles per gal	Not exempt	94	16
Unleaded Recommended)	MPG (miles per gal	Not exempt	94	16
Unleaded Recommended)	MPG (miles per gal	Not exempt	94	16
ulfur (15 ppm maximum)	MPG (miles per gal	Not exempt	92	33
ulfur (15 ppm maximum)	MPG (miles per gal	Not exempt	92	33
Unleaded Recommended)	MPG (miles per gal	Not exempt	92	33
Unleaded Recommended)	MPG (miles per gal	Not exempt	92	33
Unleaded Recommended)	MPG (miles per gal	Not exempt	102	16
Unleaded Recommended)	MPG (miles per gal	Not exempt	102	16
ulfur (15 ppm maximum)	MPG (miles per gal	Not exempt	102	16
ulfur (15 ppm maximum)	MPG (miles per gal	Not exempt	102	16
Unleaded Recommended)	MPG (miles per gal	Not exempt	102	16
Unleaded Recommended)	MPG (miles per gal	Not exempt	102	16
Unleaded Recommended)	MPG (miles per gal	Not exempt	102	16
Unleaded Recommended)	MPG (miles per gal	Truck		
Unleaded Recommended)	MPG (miles per gal	Truck		
Unleaded Recommended)	MPG (miles per gal	Truck		
ulfur (15 ppm maximum)	MPG (miles per gal	Truck		
Unleaded Recommended)	MPG (miles per gal	Truck		
Unleaded Recommended)	MPG (miles per gal	Truck		

Annual Fu	EPA Calcı	Comment	City2 FE (I	Hwy2 Fue	Comb2 Fu	Low'd City	Low'd Hw	Low'd Cor	City2 Una
2100	2100	eng code correction							
2350	2350	corrected (	14	20	16				17.8408
2150	2150	unrnd unadj combined CO2 value corrected, eng code corrected							
2100	2100	eng code correction							
2350	2350	rounding c	14	20	16				17.8408
2350	2350	rounding c	14	20	16				17.8408
2150	2150	unadj unrnd combined CO2 corrected, eng code correction							
2000	2000	annaual fuel cost correction, eng code correction							
2450	2450	eng code correction							
2550	2550	adj city and highway CO2 corrected							
2000	2000	engine code correction typo							
2000	2000	release date change, eng code correction							
2700	2700								
2700	2700	added configuration data							
2700	2700	release date change							
2050	2050	corrected unadjusted un-rounded combined fuel economy typo, correct fuel savings over 5 y							
2700	2700	added configuration data							
2950	2950	release date change							
3500	3500								
2450	2450	annual fue	14	18	15				17.1
2450	2450	eng code c	14	19	16				17.4
2700	2700	unrnd adj CO2 correction							
2150	2150	Engine code corrected							
2150	2150								
2600	2600	projected sales corrected, release date change, annual fuel cost and 5 yr spending corrected							
3100	3100	annual and 5 year fuel costs corrected, CO2 hwy rounded correction, release date change							
3300	3300								
4000	4000	corrected unrounded unadjusted combined CO2 value							
3500	3500								
4000	4000	CORRECTED THE GAS GUZZLER TO ADJ COMBINED VALUE, corrected CO2 values							
3300	3300								
4000	4000	corrected combined unadjusted unrounded CO2 value							
3500	3500								
4000	4000	corrected CO2 unadjusted unrounded values calculation error							
3100	3100	annual fuel cost and 5 yr cost corrected							
3100	3100	release date change, 5 yr fuel spending corrected; annual fuel cost corrected							
2950	2950	release date change							
2700	2700	correct 5yr fuel spending value							
2800	2800	unadj CO2 values corrected							
2700	2700	corrected 5yr spend value							
2800	2800	CO2 unadj unrnd correction							
2700	2700	CO2 adj unround correction							
2800	2800	release date change							
2800	2800	release date change							

2950	2950	release date change			
2950	2950				
2150	2150				
2150	2150				
3100	3100	annual and 5 year fuel costs corrections			
3750	3750	9	15	11	10.5
3750	3750	correct ani	9	15	11	10.5
3300	3300				
3750	3750	corrected :	9	15	11	10.5
3750	3750	corrected :	9	15	11	10.5
4350	4350	corrected fuel economy rating, release date			
5600	5600	annual fuel cost and 5 yr cost corrected			
4350	4350	fuel rating correction			
4700	4700				
4350	4350				
3500	3500				
3750	3750	fuel economy/ GHG rating corrected			
3500	3500	fuel costs corrected to reflect 2014 unit prices			
4000	4000				
1800	1800				
2150	2150				
1800	1800	unadj unrnd highway typo correction			
2150	2150	corrected fuel rating , annual fuel costs after Dave Good phone call			
2100	2100	CO2 rounding error correction			
2100	2100				
1850	1850				
2250	2250				
1800	1800	typo correction			
2150	2150	corrected fuel rating , annual fuel costs after Dave Good phone call			
2300	2300				
2250	2250				
2250	2250				
2800	2800				
2250	2250				
1700	1700	combined unadj CO2 corrected, typo transposing errors			
1700	1700				
2000	2000	FE&GHG rating corrected, annual and 5 yr savings corrected, CO2 rounding correction			
2100	2100				
2250	2250				
1800	1800				
1750	1750	fuel corrected			
1700	1700	combined unadj CO2 corrected, typo transposing errors			
2100	2100	CO2 rounding correction			
2100	2100				
1900	1900				

1700	1700	
2150	2150	
1250	1250	release date change, TEST GROUP NAME CORRECTION TO EVWXV01.4HEV.
1750	1750	
1700	1700	
2000	2000	FE & GHG ratings corrected, annual and 5 yr costs corrected, CO2 rounding correction
2000	2000	CO2 rounding corrections
1900	1900	CO2 rounding correction
1900	1900	CO2 rounding corrrections
1700	1700	CO2 rounding correction
1650	1650	CO2 unadj, unrnd typo correction
2100	2100	
2000	2000	
2450	2450	
2450	2450	
2700	2700	
2450	2450	corrected combined
2500	2500	
2950	2950	unadj combined CO2 value rounding correction
2700	2700	

Fuel2 Alternative Fuel								
Hwy2 UnaComb2 UrCity2 UnrHwy2 UnrComb2 UnrRange2 -		Fuel2 Usa	Fuel2 Usa	Fuel2 Unit	Fuel2 Unit			
28.7294	21.5093	14.1049	20.5013	16.4087	270	E	Ethanol (E8	MPG	miles per g
28.7294	21.5093	14.1049	20.5013	16.4087	270	E	Ethanol (E8	MPG	miles per g
28.7294	21.5093	14.1049	20.5013	16.4087	270	E	Ethanol (E8	MPG	miles per g

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25.6	20.1038	13.5432	18.3117	15.3409	254	E	Ethanol (E8	MPG	miles per g
27.1	20.7407	13.7947	19.3602	15.8444	317	E	Ethanol (E8	MPG	miles per g

20.8	13.5107	8.8115	15.1054	10.8449	262	E	Ethanol (E‹MPG	miles per g
20.5	13.4531	8.6127	14.7094	10.5874	262	E	Ethanol (E‹MPG	miles per g
20.5	13.4531	8.6127	14.7094	10.5874	262	E	Ethanol (E‹MPG	miles per g
20.5	13.4531	8.6127	14.7094	10.5874	262	E	Ethanol (E‹MPG	miles per g

Alternative Fuel									
Fuel2 AltmCity CO2 I	Hwy CO2	Comb CO	Fuel2 EPA	Descripto	Intake Val	Exhaust V	Carline Cl	Carline Cl	
				SIDI;	2	24	Compact C		
2900	439	302	377	2900	SIDI; FFV;	2	24	Compact C	
				SIDI;	2	24	Compact C		
				SIDI;	2	23	Subcompa		
2900	439	302	377	2900	SIDI; FFV;	2	23	Subcompa	
2900	439	302	377	2900	SIDI; FFV;	2	23	Subcompa	
					SIDI;	2	23	Subcompa	
					SIDI;	2	25	Midsize Ca	
					SIDI;	2	25	Midsize Ca	
					SIDI;	2	25	Midsize Ca	
						2	25	Midsize Ca	
						2	25	Midsize Ca	
					SIDI;	2	25	Midsize Ca	
					SIDI;	2	25	Midsize Ca	
					SIDI;	2	25	Midsize Ca	
						2	26	Large Cars	
					SIDI;	2	26	Large Cars	
					SIDI;	2	26	Large Cars	
					SIDI;	2	26	Large Cars	
3100	458	338	404	3100	SIDI; FFV;	2	27	Small Stati	
2900	450	320	392	2900	SIDI; FFV;	2	231	Small SUV 4WD	
					SIDI;	2	231	Small SUV 4WD	
						2	231	Small SUV 4WD	
					SIDI;	2	231	Small SUV 4WD	
						2	233	Standard SUV 4W	
					SIDI;	2	233	Standard SUV 4W	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	21	Two Seate	
					SIDI;	2	23	Subcompa	
					SIDI;	2	23	Subcompa	
					SIDI;	2	25	Midsize Ca	
					SIDI;	2	24	Compact C	
					SIDI;	2	24	Compact C	
					SIDI;	2	23	Subcompa	
					SIDI;	2	23	Subcompa	
					SIDI;	2	23	Subcompa	
					SIDI;	2	25	Midsize Ca	
					SIDI;	2	25	Midsize Ca	

					SIDI;	2	25	Midsize Ca
					SIDI;	2	231	Small SUV 4WD
					SIDI;	2	23	Subcompa
					SIDI;	2	21	Two Seate
					SIDI;	2	24	Compact C
4250	711	410	576	4250	FFV;	2	24	Compact C
4250	726	421	589	4250	FFV;	2	23	Subcompa
					SIDI;	2	23	Subcompa
4250	726	421	589	4250	FFV;	2	23	Subcompa
4250	726	421	589	4250	FFV;	2	25	Midsize Ca
						1	15	Midsize Ca
						2	21	Two Seate
						2	21	Two Seate
						2	21	Two Seate
						2	21	Two Seate
					SIDI;	2	21	Two Seate
					SIDI;	2	21	Two Seate
					SIDI;	2	21	Two Seate
					SIDI;	2	21	Two Seate
						2	24	Compact C
					SIDI;	2	24	Compact C
						2	24	Compact C
					SIDI;	2	24	Compact C
						2	24	Compact C
						2	24	Compact C
						2	23	Subcompa
					SIDI;	2	23	Subcompa
						2	23	Subcompa
					SIDI;	2	23	Subcompa
						2	23	Subcompa
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	23	Subcompa
						2	24	Compact C
						2	24	Compact C
						2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
					SIDI;	2	24	Compact C
						2	24	Compact C
					SIDI;	2	24	Compact C
						1	14	Compact C
						1	14	Compact C

	2	24	Compact C
SIDI;	2	24	Compact C
SIDI;	2	24	Compact C
	2	27	Small Stati
	2	27	Small Stati
	2	27	Small Stati
	2	27	Small Stati
SIDI;	2	25	Midsize Ca
SIDI;	2	25	Midsize Ca
	2	25	Midsize Ca
	2	25	Midsize Ca
	2	25	Midsize Ca
	2	25	Midsize Ca
SIDI;	2	25	Midsize Ca
SIDI;	2	230	Small SUV 2WD
SIDI;	2	230	Small SUV 2WD
SIDI;	2	231	Small SUV 4WD
	2	233	Standard SUV 4W
SIDI;	2	233	Standard SUV 4W
SIDI;	2	233	Standard SUV 4W

ac									
Car/Truck	Calc Appr	Sales	Release D	EPA FE Label	Dataset ID	Unique La	Label Rec	Relabel	Relabel D
car	Derived 5-cycle label		6/7/2013	13993		N	N		
car	Derived 5-cycle label		6/7/2013	13987		N	N		
car	Vehicle Specific 5-cycle		6/7/2013	13995		N	N		
car	Derived 5-cycle label		6/7/2013	13994		N	N		
car	Derived 5-cycle label		6/7/2013	13989		N	N		
car	Derived 5-cycle label		6/7/2013	14008		N	N		
car	Vehicle Specific 5-cycle		6/7/2013	13996		N	N		
car	Vehicle Specific 5-cycle		6/7/2013	13992		N	N		
car	Vehicle Specific 5-cycle		6/7/2013	13997		N	N		
car	Derived 5-cycle label		6/14/2013	13972		N	N		
car	Vehicle Specific 5-cycle		6/21/2013	14199		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	14200		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13857		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13858		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	14000		N	N		
car	Vehicle Specific 5-cycle		2/8/2013	13281		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13859		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13999		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13900		N	N		
ons car	Derived 5-cycle label		6/7/2013	13986		N	N		
	Derived 5-cycle label		6/7/2013	13991		N	N		
	Vehicle Specific 5-cycle		6/14/2013	13974		N	N		
	Vehicle Specific 5-cycle		6/21/2013	14198		N	N		
	Vehicle Specific 5-cycle		6/14/2013	13848		N	N		
D	Vehicle Specific 5-cycle		6/14/2013	14009		N	N		
D	Derived 5-cycle label		6/14/2013	14007		N	N		
car	Vehicle Specific 5-cycle		2/8/2013	12975		N	N		
car	Vehicle Specific 5-cycle		2/8/2013	13038		N	N		
car	Vehicle Specific 5-cycle		2/8/2013	12971		N	N		
car	Vehicle Specific 5-cycle		2/8/2013	13036		N	N		
car	Vehicle Specific 5-cycle		2/8/2013	12974		N	N		
car	Vehicle Specific 5-cycle		2/8/2013	13037		N	N		
car	Vehicle Specific 5-cycle		2/8/2013	12970		N	N		
car	Vehicle Specific 5-cycle		2/8/2013	13035		N	N		
car	Vehicle Specific 5-cycle		6/3/2013	13728		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	14119		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	14004		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13884		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13976		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13883		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13977		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	13975		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	14003		N	N		
car	Vehicle Specific 5-cycle		6/14/2013	14002		N	N		

car	Vehicle Specific 5-cycle label	6/14/2013	14001	N	N
	Vehicle Specific 5-cycle label	7/19/2013	14476	N	N
car	Vehicle Specific 5-cycle label	5/31/2013	13808	N	N
car	Vehicle Specific 5-cycle label	5/31/2013	13809	N	N
car	Vehicle Specific 5-cycle label	7/1/2013	13732	N	N
car	Vehicle Specific 5-cycle label	3/20/2013	13231	N	N
car	Vehicle Specific 5-cycle label	3/18/2013	13376	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13614	N	N
car	Vehicle Specific 5-cycle label	3/18/2013	13375	N	N
car	Vehicle Specific 5-cycle label	3/18/2013	13374	N	N
car	Vehicle Specific 5-cycle label	8/19/2013	14568	N	N
car	Vehicle Specific 5-cycle label	5/15/2013	13724	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	14011	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	13822	N	N
car	Vehicle Specific 5-cycle label	6/3/2013	13877	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13706	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13827	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13710	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	13709	N	N
car	Derived 5-cycle label	6/14/2013	13832	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14124	N	N
car	Derived 5-cycle label	6/14/2013	13979	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14911	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14213	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14197	N	N
car	Derived 5-cycle label	6/14/2013	13833	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14125	N	N
car	Derived 5-cycle label	6/14/2013	13980	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14912	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14195	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14064	N	N
car	Vehicle Specific 5-cycle label	6/17/2013	14065	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	13700	N	N
car	Vehicle Specific 5-cycle label	6/14/2013	14127	N	N
car	Derived 5-cycle label	6/17/2013	13985	N	N
car	Derived 5-cycle label	6/17/2013	13847	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14234	N	N
car	Vehicle Specific 5-cycle label	7/22/2013	14514	N	N
car	Vehicle Specific 5-cycle label	7/22/2013	14515	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14136	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14135	N	N
car	Derived 5-cycle label	6/17/2013	13984	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14217	N	N
car	Vehicle Specific 5-cycle label	7/1/2013	14281	N	N
car	Vehicle Specific 5-cycle label	7/1/2013	14282	N	N

car	Derived 5-cycle label	6/17/2013	13826	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14139	N	N
car	Derived Vehicle Specific 5-cycle	8/13/2013	14719	N	N
car	Derived 5-cycle label	6/24/2013	13819	N	N
car	Derived 5-cycle label	6/17/2013	13825	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14233	N	N
car	Vehicle Specific 5-cycle label	7/12/2013	14218	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14219	N	N
car	Vehicle Specific 5-cycle label	6/24/2013	14220	N	N
car	Vehicle Specific 5-cycle label	6/28/2013	14225	N	N
car	Vehicle Specific 5-cycle label	6/28/2013	14226	N	N
car	Vehicle Specific 5-cycle label	6/25/2013	14188	N	N
car	Vehicle Specific 5-cycle label	6/25/2013	14189	N	N
car	Vehicle Specific 5-cycle label	5/24/2013	13699	N	N
	Derived 5-cycle label	6/17/2013	14069	N	N
	Vehicle Specific 5-cycle label	6/17/2013	14070	N	N
	Derived 5-cycle label	6/17/2013	14122	N	N
D	Vehicle Specific 5-cycle label	5/13/2013	13666	N	N
D	Derived 5-cycle label	6/14/2013	14120	N	N
D	Derived 5-cycle label	5/28/2013	13781	N	N

Suppress	Police/Em	Comment	Cyl Deact	Cyl Deact	Var Valve	Var Valve	Var Valve	Var Valve	Energy St
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	N		Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	N		N	N				
N	N	N		N	N				
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	
N	N	N		N	N				
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	
N	N	N		Y	Intake and		N		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	N		N	N				
N	N	N		Y	CONTINUCY		AUDI VALV	Battery(s)	
N	N	N		N	N				
N	N	N		Y	CONTINUC		N		
N	N	N		Y	CONTINUC		N		
N	N	N		Y	CONTINUC		N		
N	N	ENGINE CC	N	Y	INLET AND		N		
N	N	ENGINE CC	N	Y	INLET AND		N		
N	N	N		Y	CONTINUC		N		
N	N	N		Y	CONTINUC		N		
N	N	ENGINE CC	N	Y	INLET AND		N		
N	N	ENGINE CC	N	Y	INLET AND		N		
N	N	N		Y	Continuou		N		
N	N	N		Y	Continuou		N		
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	N	Y	CONTINUCY		AUDI VALV		
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	
N	N	Engine Coc	Y	Deactivatic	Y	Continuou	Y	Multi-lobe	

N	N	Engine Coc Y	Deactivatic Y	Continuou Y	Multi-lobe
N	N	Engine Coc N	Y	CONTINUCY	AUDI VALV
N	N	ENGINE CC N	Y	CONTINUCY	AUDI VALV
N	N	ENGINE CC N	Y	CONTINUCY	AUDI VALV
N	N	Engine Coc Y	Deactivatic Y	Continuou Y	Multi-lobe
N	N	N	Y	INLET AND N	
N	N	N	Y	INLET AND N	
N	N	Engine Coc Y	Deactivatic Y	Continuou Y	Multi-lobe
N	N	N	Y	INLET AND N	
N	N	N	Y	INLET AND N	
N	N	Y	Cylinder de Y	Variation c N	
N	N	CHARGE A N	Y	INLET AND N	
N	N	Engine Co Y	ELECTRO Y	HYDRAUL N	
N	N	Engine Coc Y	ELECTRON Y	HYDRAULI N	
N	N	Engine Co Y	ELECTRO Y	HYDRAUL N	
N	N	ENGINE CC N	Y	INLET AND N	
N	N	ENGINE C N	Y	INLET ANI N	
N	N	ENGINE C N	Y	INLET ANI N	
N	N	ENGINE C N	Y	INLET ANI N	
N	N	N	N	N	
N	N	N	Y	MECANICA N	
N	N	N	N	N	
N	N	N	Y	MECANICA N	
N	N	N	Y	INLET CON N	
N	N	N	Y	INLET CON N	
N	N	N	N	N	
N	N	N	Y	MECANICA N	
N	N	N	N	N	
N	N	N	Y	MECANICA N	
N	N	N	Y	INLET CON N	
N	N	N	Y	position of N	
N	N	N	Y	position of N	
N	N	N	Y	position of N	
N	N	N	Y	CONTINUC N	
N	N	N	N	N	
N	N	N	N	N	
N	N	N	Y	INLET CON N	
N	N	Test Grou N	Y	CONTINUC N	
N	N	Test Grou N	Y	CONTINUC N	
N	N	N	Y	MECANICA N	
N	N	N	Y	MECANICA N	
N	N	N	N	N	
N	N	N	Y	MECANICA N	
N	N	N	N	N	
N	N	N	N	N	

N	N	N	N	N	
N	N	N	Y	MECANICAN	
N	Beach for Highway label	N	Y	MECANICAN	Battery(s)
N	N	N	N	N	
N	N	N	N	N	
N	N	N	Y	INLET CONN	
N	N	N	Y	INLET CONN	
N	N	N	Y	MECANICAN	
N	N	N	Y	MECANICAN	
N	N	SCR Equipr N	N	N	
N	N	SCR Equipr N	N	N	
N	N	N	Y	INLET CONN	
N	N	N	Y	INLET CONN	
N	N	N	Y	Electronic N	
N	N	N	Y	position of N	
N	N	N	Y	position of N	
N	N	N	Y	position of N	
N	N	N	N	N	
N	N	N	Y	INTAKE / E N	
N	N	V6 CYLIND N	Y	MECANICAN	Battery(s)

evice Desc	Energy St	# Batterie	Battery Ty	Battery Ty	Total Volt	Batt Ener	Batt Spec	Batt Char	Comment	# Capacit
[illegible]										
[illegible]										
		1	Lithium Ior		266	5.00	37.0	On-Board		
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										
EMENT										
EMENT										
ECHANICAL-HYDRAULIC										
ECHANICAL-HYDRAULIC										
[illegible]										
[illegible]										
[illegible]										
[illegible]										
[illegible]										

tolled and hydraulically adjusted.

ECHANICAL-HYDRAULIC
ECHANICAL-HYDRAULIC
ECHANICAL-HYDRAULIC
ECHANICAL-HYDRAULIC
aust valves on a single camshaft. No change in valve overlaps.
ECHANICAL-HYDRAULIC
Bugatti GT.
VALVED CONTROL CONTINUOUSLY VVT
VALVED CONTROL CONTINUOUSLY VVT
VALVED CONTROL CONTINUOUSLY VVT
ECHANICAL-HYDRAULIC
E / MECHANICAL-HYDRAULIC
E / MECHANICAL-HYDRAULIC
E / MECHANICAL-HYDRAULIC

AMS

AMS
YDRAULIC
YDRAULIC

AMS

AMS
YDRAULIC
controlled and hydraulically adjusted
controlled and hydraulically adjusted
controlled and hydraulically adjusted

YDRAULIC

AMS
AMS

AMS

AMS					
ND OUTLET CAMS	1 Lithium Ior	220	5.00	27.0	On-Board

YDRAULIC
YDRAULIC
AMS
AMS

YDRAULIC
YDRAULIC

controlled and hydraulically adjusted
controlled and hydraulically adjusted
controlled and hydraulically adjusted

LICALLY AND CONTROLLED ELECTRONICALLY

AMS	1 NiMH	288	6.00	21.5	On-Board

Regen Bra	Regen Bra	Regen Bra	Driver Cnt	Fuel Cell I	Usable H2	Fuel Cell (	HEV-EV C	# Drive M	Motor Ger

(2) Driver selected gear at the beginning of the cycle, engine speed 930 to 3500 RPM, vehicle speed greater than 25 km

(2) Driver selected gear at the beginning of the cycle, engine speed 930 to 3500 RPM, vehicle speed greater than 25 km

(2) Driver selected gear at the beginning of the cycle, engine speed 930 to 3500 RPM, vehicle speed greater than 25 km

Electrical R	BRAKE PED	Front Whe	Y	1 Other
Other	BRAKE PED	Both	N	1 Other

Motor Ger	Rated Mot	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Mete	Fuel Cell V	Off Board	Camless V	Oil Viscosi
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				CRDI	Common R			N	5W30 VW
				CRDI	Common R			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
h				GDI	Spark Ignit			N	5W30 VW
				CRDI	Common R			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
h				GDI	Spark Ignit			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				CRDI	Common R			N	5W30 VW
		40		GDI	Spark Ignit	N	N	N	5W40 VW
				CRDI	Common R			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W/30, VV
				GDI	Spark Ignit			N	5W/30, VV
				GDI	Spark Ignit			N	10W60 VW
				GDI	Spark Ignit			N	10W60 VW
				GDI	Spark Ignit			N	5W/30, VV
				GDI	Spark Ignit			N	5W/30, VV
				GDI	Spark Ignit			N	10W60 VW
				GDI	Spark Ignit			N	10W60 VW
				GDI	Spark Ignit			N	5W30 VW
				GDI	Spark Ignit			N	5W30 VW
h				GDI	Spark Ignit			N	5W30 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
				GDI	Spark Ignit			N	5W40 VW
h				GDI	Spark Ignit			N	5W30 VW
h				GDI	Spark Ignit			N	5W30 VW

h	GDI	Spark Ignit	N	5W30 VW
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit N	N	5W40
	GDI	Spark Ignit N	N	5W40
h	GDI	Spark Ignit	N	5W30 VW
	MFI	Multipoint N	N	5W30 VW
	MFI	Multipoint N	N	5W30 VW
h	GDI	Spark Ignit	N	5W30 VW
	MFI	Multipoint N	N	5W30 VW
	MFI	Multipoint N	N	5W30 VW
	MFI	Multipoint	N	0W40 / VV
	MFI	Multipoint	N	10W60 VV
	MFI	Multipoint/S	N	5W30 VW
	MFI	Multipoint	N	5W30 VW
	MFI	Multipoint/S	N	5W30 VW
	GDI	Spark Ignit	N	10W60 VV
	GDI	Spark Ignit	N	10W60 VV
	GDI	Spark Ignit	N	10W60 VV
	GDI	Spark Ignit	N	10W60 VV
	CRDI	Common RN	N	5W40
	GDI	Spark Ignit	N	5W40 VW
	CRDI	Common RN	N	5W40
	GDI	Spark Ignit	N	5W40 VW
	MFI	Multipoint	N	10W40 / V
	MFI	Multipoint	N	10W40 / V
	CRDI	Common RN	N	5W40
	GDI	Spark Ignit	N	5W40 VW
	CRDI	Common RN	N	5W40
	GDI	Spark Ignit	N	5W40 VW
	MFI	Multipoint	N	10W40 / V
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W-40 VW
	GDI	Spark Ignit	N	5W40 / VV
	CRDI	Common RN	N	5W40
	CRDI	Common RN	N	5W40
	MFI	Multipoint	N	10W40 / V
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W40 VW
	GDI	Spark Ignit	N	5W40 VW
	CRDI	Common RN	N	5W40
	GDI	Spark Ignit	N	5W40 VW
	MFI	Multipoint	N	5W40 VW
	MFI	Multipoint	N	5W40 VW

		CRDI	Common F	N		N	5W40
		GDI	Spark Ignit			N	5W40 VW
3 PHASE PI	28	GDI	Spark Ignit	N	N	N	5W40 VW
		CRDI	Common F	N		N	5W40
		CRDI	Common F	N		N	5W40
		MFI	Multipoint			N	10W40 / V
		MFI	Multipoint			N	10W40 / V
		GDI	Spark Ignit			N	5W40 VW
		GDI	Spark Ignit			N	5W40 VW
		CRDI	Common F			N	5W40 VW
		CRDI	Common F			N	5W40 VW
		MFI	Multipoint			N	10W40 / V
		MFI	Multipoint			N	10W40 / V
		GDI	Spark Ignit			N	5W40 VW
		GDI	Spark Ignit			N	5W40 VW
		GDI	Spark Ignit			N	5W40 VW
		GDI	Spark Ignit			N	5W40 VW
		CRDI	Common F			N	5W30 VW
		GDI	Spark Ignit			N	5W40 VW
3 PHASE CI	34	GDI	Spark Ignit	N	N	N	5W40 VW

Stop/Start	Stop/Start	Trans in FE	Trans as I	Model Typ	Charge De	Charge De	Charge Su	Charge Su	EPA Calcul
N	No	Auto(AV-S	Auto(AV-S						
N	No	Auto(S8)	Auto(S8)						
N	No	Manual(M	Manual(M						
N	No	Auto(AV-S	Auto(AV-S						
N	No	Auto(S8)	Auto(S8)	A5 Cabriol					
N	No	Auto(S8)	Auto(S8)						
N	No	Manual(M	Manual(M						
N	No	Auto(AV-S	Auto(AV-S	Audi A6 CV					
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)	Audi A6 qu					
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	50700 Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
Y	50700 Yes	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
Y	Yes	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)						
N	No	Auto(S8)	Auto(S8)	Audi Q7					
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
M	50500 No	Auto(AM-S	Auto(AM-S						
M	50500 No	Manual(M	Manual(M						
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
M	50500 No	Auto(AM-S	Auto(AM-S						
M	50500 No	Manual(M	Manual(M						
N	50700 No	Auto(AM-S	Auto(AM-S						
N	50700 No	Auto(AM-S	Auto(AM-S						
N	50700 No	Auto(S8)	Auto(S8)						
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
N	No	Auto(AM-S	Auto(AM-S						
N	No	Manual(M	Manual(M						
N	No	Auto(AM-S	Auto(AM-S						
N	50700 No	Auto(AM-S	Auto(AM-S						
N	50700 No	Auto(AM-S	Auto(AM-S						

N	50700	No	Auto(S8)	Auto(S8)
N		No	Auto(S8)	Auto(S8)
N		No	Auto(AM-S	Auto(AM-S TT Coupe c
N		No	Auto(AM-S	Auto(AM-S TT Coupe c
N	50700	No	Auto(S8)	Auto(S8)
N		No	Auto(S8)	Auto(S8)
N		No	Auto(S8)	Auto(S8)
N	50700	No	Auto(S8)	Auto(S8)
N		No	Auto(S8)	Auto(S8)
N		No	Auto(S8)	Auto(S8)
N	VW50500	No	Auto(S8)	Auto(S8)
N	50500	No	Auto(AM-S	Auto(AM-S
Y	50700	Yes	Auto(AM-S	Auto(AM-S
Y	50700	Yes	Auto(AM-S	Auto(AM-S
N	50700	No	Auto(AM-S	Auto(AM-S VENENO
N	50500	No	Auto(AM-S	Auto(AM-S
N	50500	No	Manual(M	Manual(M Gallardo C
N	50500	No	Auto(AM-S	Auto(AM-S
N	50500	No	Manual(M	Manual(M Gallardo S
N		No	Auto(AM-S	Auto(AM-S
N		No	Auto(AM-S	Auto(AM-S
N		No	Manual(M	Manual(M
N		No	Manual(M	Manual(M
N	0	No	Auto(S6)	Auto(S6)
N	0	No	Manual(M	Manual(M
N		No	Auto(AM-S	Auto(AM-S
N		No	Auto(AM-S	Auto(AM-S
N		No	Manual(M	Manual(M
N		No	Manual(M	Manual(M
N	0	No	Auto(S6)	Auto(S6)
N		No	Auto(AM-S	Auto(AM-S
N		No	Manual(M	Manual(M CC M6
N		No	Auto(S6)	Auto(S6)
N		No	Auto(AM-S	Auto(AM-S
N		No	Auto(AM-S	Auto(AM-S
N		No	Manual(M	Manual(M Jetta Sport
N	0	No	Auto(S6)	Auto(S6)
N		No	Auto(AM-S	Auto(AM-S
N		No	Manual(M	Manual(M
N		No	Auto(S6)	Auto(S6)
N		No	Manual(M	Manual(M
N		No	Auto(AM-S	Auto(AM-S
N		No	Auto(AM-S	Auto(AM-S
N		No	Auto(S6)	Auto(S6) Jetta Base
N		No	Manual(M	Manual(M

N	No	Manual(M	Manual(M	Jetta Sport
N	No	Manual(M	Manual(M	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Manual(M	Manual(M	Jetta Sport
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M	Manual(M	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M	Manual(M	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Manual(M	Manual(M	
N	No	Auto(S6)	Auto(S6)	
N	No	Manual(M	Manual(M	
N	No	Auto(AM-S	Auto(AM-S	
N	No	Auto(S6)	Auto(S6)	Tiguan fro
N	No	Manual(M	Manual(M	
N	No	Auto(S6)	Auto(S6)	
N	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	
N	No	Auto(S8)	Auto(S8)	Touareg H

EPA Calcu	EPA Calculated Gas G	[GHG Ratin	#1 Smog R	#1 Mfr Sm	#1 EPA Sm	SmartWay
35.2		7	7	EADXV02.(	5	
30.9		6	6	EADXJ02.0	5	
33.1		7	7	EADXV02.(	5	
35.2		7	7	EADXV02.(	5	
30.9		6	6	EADXJ02.0	5	
30.9		6	6	EADXJ02.0	5	
33.1		7	7	EADXV02.(	5	
36.9		7	7	EADXV02.(	5	
30.0		6	6	EADXV02.(	5	
28.1		5	5	EADXJ03.0	5	
37.7		7	7	EADXJ03.0	5	
37.7		7	7	EADXJ03.0	5	
27.2		5	5	EADXJ03.0	5	
27.2		5	5	EADXJ03.0	5	
27.1		5	5	EADXV04.(	5	
36.9		7	6	EADXJ03.0	5	
27.2		5	5	EADXJ03.0	5	
24.4		4	4	EADXV04.(	5	
19.3		3	3	EVWXV06.	5	
29.5		6	6	EADXJ02.0	5	
29.6		6	6	EADXJ02.0	5	
27.2		5	5	EADXJ03.0	5	
34.3		7	6	EADXJ03.0	5	
34.0		7	7	EADXT02.(	5	
28.1		5	4	EADXT03.(	5	
23.1		4	4	EADXT03.(	5	
20.8		3	3	EADXV04.2	5	
17.2		2	2	EADXV04.2	5	
19.6		3	3	EADXV05.2	5	
17.0		2	2	EADXV05.2	5	
20.8		3	3	EADXV04.2	5	
17.2		2	2	EADXV04.2	5	
19.6		3	3	EADXV05.2	5	
16.8		2	2	EADXV05.2	5	
23.0		4	4	EADXV04.2	5	
22.6		4	4	EADXV04.2	5	
24.1		4	4	EADXV04.(	5	
26.9		5	5	EADXJ03.0	5	
23.5		5	5	EADXJ03.0	5	
26.9		5	5	EADXJ03.0	5	
23.5		5	5	EADXJ03.0	5	
26.4		5	5	EADXJ03.0	5	
25.5		5	5	EADXV04.(	5	
25.5		5	5	EADXV04.(	5	

23.6	[redacted]	4	4 EADXV04.(	5
24.0		4	4 EADXJ03.0	5
33.2		7	7 EADXV02.(	5
33.2		7	7 EADXV02.(	5
23.6		4	4 EADXV04.(	5
19.5		2	2 EBEXV06.0	5
18.3		2	2 EBEXV06.0	5
21.8		3	3 EADXV04.(	5
18.3		2	2 EBEXV06.0	5
18.3		2	2 EBEXV06.0	5
15.9		1	1 EBEXV06.8	5
12.6		1	1 EBGTV08.(	5
16.4		1	1 ENLXV06.	5
14.5		1	1 ENLXV06.5	5
15.8		1	1 ENLXV06.	5
19.4		3	3 EADXV05.2	5
17.4		2	2 EADXV05.	5
19.3		3	3 EADXV05.	5
16.1		2	2 EADXV05.	5
43.7		8	7 EVWXV02.	5
33.9		7	7 EVWXV02.	5
43.4		8	7 EVWXV02.	5
33.3		7	7 EVWXV02.	5
31.6		6	6 EVWXV02.	7
32.0		6	6 EVWXV02.	7
42.3		8	7 EVWXV02.	5
33.2		6	6 EVWXV02.	5
43.4		8	7 EVWXV02.	5
33.3		7	7 EVWXV02.	5
30.3		6	6 EVWXV02.	7
32.3		6	6 EVWXJ02.(	5
31.6		6	6 EVWXJ02.(	5
24.8		5	5 EVWXV03.	5
32.4		6	6 EVWXV02.	5
46.2		8	8 EVWXV02.	5
46.0		8	8 EVWXV02.	5
32.2		7	7 EVWXV02.	7
34.4		7	7 EADXV02.(	7
30.9		6	6 EADXV02.(	7
37.5		7	7 EVWXV02.	5
38.4		8	8 EVWXV02.	5
46.2		8	8 EVWXV02.	5
34.8		7	7 EVWXV02.	5
32.9		6	6 EVWXV02.	5
34.7		7	7 EVWXV02.	5

46.0	[redacted]	8	8	EVWXV02. 5
34.0		7	7	EVWXV02. 5
60.8		10	10	EVWXV01. 7
44.2		8	7	EVWXV02. 5
46.0		8	8	EVWXV02. 5
32.2		7	7	EVWXV02. 7
32.1		7	7	EVWXV02. 7
36.1		7	7	EVWXV02. 5
36.3		7	7	EVWXV02. 5
44.6		8	8	EVWXV02. 5
46.4		9	8	EVWXV02. 5
31.9		6	6	EVWXV02. 7
31.7		7	7	EVWXV02. 7
28.5		6	6	EVWXV03. 5
29.7		6	6	EVWXJ02.(5
26.4		5	5	EVWXJ02.(5
29.5		6	6	EVWXJ02.(5
29.6		6	5	EADXT03.(5
25.0		4	4	EVWXT03.(5
28.2		5	5	EVWXT03.(5

#3 Smog R #3 Mfr Sm #3 EPA Sm SmartWay #4 Smog R #4 Mfr Sm

EVWXV02.	7
EVWXV02.	7
EVWXV02.	5
EVWXV02.	5
EVWXV02.	7
EVWXV02.	7
EVWXV02.	5
EVWXV02.	7
EVWXV02.	7
EVWXV02.	5
EVWXV02.	7
EVWXV02.	7
EVWXV02.	7

EVWXV02. 7

EVWXV02. 5
EVWXV02. 5
EVWXV02. 7
EVWXV02. 7

EVWXV02. 5
EVWXV02. 5

[illegible]	You Save $	You Spend $	City CO2 R	Hwy CO2 R	Comb CO2	CO2- Volu	CO2- Volu	CO2-Vol In
	1000		376	281	333			
		250	435	307	377			
	750		397	276	343			
	1000		376	281	333			
		250	435	307	377			
		250	435	307	377			
	750		397	276	343			
	1500		360	272	320			
		750	452	306	386			
		1250	482	326	412			
	1500		416	267	349			
	1500		416	267	349			
		2000	500	321	420			
		2000	500	321	420			
		2000	515	313	424			
	1250		426	280	360			
		2000	500	321	420			
		3250	554	345	460			
		6000	675	430	565			
		750	444	333	394			
		750	452	322	393			
		2000	496	347	429			
	750		430	328	385			
	750		369	298	337			
		1500	541	369	464			
		4000	570	409	498			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			
		5000	656	394	538			
		8500	770	436	620			
		6000	686	400	557			
		8500	754	456	620			
		4000	562	379	480			
		4000	558	398	486			
		3250	573	336	466			
		2000	488	321	413			
		2500	442	357	403			
		2000	488	321	413			
		2500	442	357	403			
		2000	500	341	428			
		2500	531	331	441			
		2500	531	331	441			

	3250	580	347	475
	3250	546	388	475
750		396	285	346
750		396	285	346
	4000	590	364	488
	7250	710	421	580
	7250	736	443	604
	5000	638	370	517
	7250	736	443	604
	7250	736	443	604
	10250	840	501	688
	16500	1050	599	847
	10250	836	481	676
	12000	902	547	742
	10250	831	523	692
	6000	657	447	562
	7250	734	511	634
	6000	660	446	564
	8500	768	452	626
2500		354	262	313
750		377	302	343
2500		365	250	313
750		393	292	347
1000		397	310	358
1000		407	289	354
2250		363	278	324
250		393	313	357
2500		365	250	313
750		393	292	347
0		418	329	378
250		403	283	349
250		426	279	360
	2500	523	351	446
250		405	257	338
3000		340	245	297
3000		342	243	298
1500		383	292	342
1000		382	273	333
250		421	288	361
2500		354	252	308
2750		344	252	303
3000		340	245	297
1000		379	281	334
1000		381	299	344
2000		361	262	316

3000		342	243	298
750		389	274	338
5250		212	185	200
2750		352	258	310
3000		342	243	298
1500		383	292	342
1500		391	266	335
2000		371	267	324
2000		365	259	317
3000		331	240	290
3250		330	239	289
1000		399	289	350
1500		388	275	337
	750	449	319	390
	750	431	344	392
	2000	484	336	417
	750	435	344	394
	1000	517	351	442
	3250	520	391	462
	2000	447	372	413

[illegible]	[illegible]	[illegible]	[illegible]	240V Char	120V Char	PHEV Tota
293.8	199.8	251.5	375.8	281.3	333.3	
344.2	218.7	287.7	435.2	306.7	377.4	
320.8	202.3	267.5	397.5	276.5	343.0	
293.8	199.8	251.5	375.8	281.3	333.3	
344.2	218.7	287.7	435.2	306.7	377.4	
344.2	218.7	287.7	435.2	306.7	377.4	
320.8	202.3	267.5	397.5	276.5	343.0	
282.0	189.0	240.2	360.0	272.0	320.4	
358.0	219.0	295.4	452.0	306.0	386.3	
383.5	233.0	315.8	481.7	326.0	411.6	
331.0	194.0	269.4	415.7	267.3	348.9	
331.0	194.0	269.4	415.7	267.3	348.9	
397.5	239.9	326.6	500.5	320.9	419.7	
397.5	239.9	326.6	500.5	320.9	419.7	
409.5	232.0	329.6	515.1	313.1	424.2	
339.0	198.0	275.6	425.6	280.1	360.1	
397.5	239.9	326.6	500.5	320.9	419.7	
447.5	262.0	364.0	554.1	344.7	459.9	
559.0	346.0	463.2	675.0	430.0	564.8	
352.0	238.0	300.7	444.5	332.7	394.2	
358.0	230.0	300.4	451.6	321.9	393.2	
390.0	251.0	327.4	496.0	347.0	429.0	
348.0	234.0	296.7	430.5	328.5	384.6	
380.0	223.0	309.4	369.0	298.0	337.0	
446.0	260.0	362.3	541.0	369.0	463.6	
458.0	295.0	384.6	569.6	409.5	497.6	
540.1	299.6	431.9	655.8	394.0	538.0	
650.6	360.5	520.1	770.1	435.7	619.6	
577.0	309.4	456.6	685.6	400.2	557.2	
646.2	378.3	525.6	754.5	455.5	620.0	
540.1	299.6	431.9	655.8	394.0	538.0	
650.6	360.5	520.1	770.1	435.7	619.6	
577.0	309.4	456.6	685.6	400.2	557.2	
646.2	378.3	525.6	754.5	455.5	620.0	
466.0	296.0	389.5	562.0	379.0	479.6	
463.0	307.0	392.8	558.0	398.0	486.0	
467.0	253.0	370.7	573.0	336.1	466.4	
396.0	248.0	329.4	488.0	321.0	412.8	
443.0	266.0	363.4	441.7	356.7	403.4	
396.0	248.0	329.4	488.0	321.0	412.8	
443.0	266.0	363.4	441.7	356.7	403.4	
401.0	256.0	335.8	500.0	341.0	428.4	
428.2	253.6	349.6	531.0	331.4	441.2	
428.2	253.6	349.6	531.0	331.4	441.2	

468.0	267.0	377.6	580.3	347.3	475.4
446.0	274.0	368.6	546.2	388.3	475.1
313.0	210.7	267.0	395.8	285.1	346.0
313.0	210.7	267.0	395.8	285.1	346.0
466.0	265.0	375.6	590.0	364.0	488.3
576.0	314.0	458.1	709.5	420.8	579.6
617.0	333.0	489.2	736.3	442.9	604.3
510.0	288.0	410.1	638.0	370.0	517.4
617.0	333.0	489.2	736.3	442.9	604.3
617.0	333.0	489.2	736.3	442.9	604.3
690.0	408.0	563.1	840.4	501.0	687.7
885.0	495.0	709.5	1050.0	599.0	847.0
705.0	353.0	546.6	836.0	481.0	676.2
771.0	418.0	612.2	902.0	547.0	742.2
708.0	392.0	565.8	831.0	523.0	692.4
552.0	349.0	460.6	657.0	447.0	562.5
635.0	370.0	515.8	734.0	511.0	633.6
556.0	348.0	462.4	660.0	446.0	563.7
681.0	391.0	550.5	768.0	452.0	625.8
272.0	184.0	232.4	354.3	261.8	312.7
306.7	211.3	263.8	377.0	302.3	343.4
281.2	175.2	233.5	365.1	249.9	313.3
320.9	204.6	268.6	392.7	291.8	347.3
324.0	227.7	280.7	396.6	310.3	357.8
334.9	206.9	277.3	407.3	288.6	353.9
279.0	196.0	241.6	362.5	277.9	324.4
309.1	219.0	268.6	392.7	313.4	357.0
281.2	175.2	233.5	365.1	249.9	313.3
320.9	204.6	268.6	392.7	291.8	347.3
335.6	235.6	290.6	418.5	329.4	378.4
327.2	207.7	273.4	402.8	282.7	348.8
346.5	202.9	281.9	425.8	279.1	359.8
434.0	265.0	358.0	523.0	351.0	445.6
321.0	213.0	272.4	404.7	256.6	338.1
259.9	171.5	220.1	340.0	244.9	297.2
262.0	170.1	220.6	342.5	243.1	297.8
327.2	211.5	275.1	383.2	292.0	342.2
299.0	206.0	257.2	382.0	273.0	333.0
345.0	217.0	287.4	421.0	288.0	361.2
284.5	181.8	238.3	353.5	251.9	307.8
276.2	180.6	233.2	344.5	251.5	302.6
259.9	171.5	220.1	340.0	244.9	297.2
302.4	201.2	256.9	378.6	280.6	334.5
315.0	214.0	269.6	381.3	298.8	344.2
307.0	192.0	255.2	360.5	262.0	316.2

262.0	170.1	220.6	342.5	243.1	297.8
316.2	198.2	263.1	389.2	274.4	337.5
155.0	136.0	146.4	211.9	184.8	199.7
270.0	181.0	230.0	351.9	257.7	309.5
262.0	170.1	220.6	342.5	243.1	297.8
327.2	211.5	275.1	383.2	292.0	342.2
338.3	201.3	276.6	391.4	266.2	335.1
298.7	185.4	247.7	371.3	266.5	324.1
295.6	185.7	246.1	365.0	258.8	317.2
268.0	179.0	228.0	331.0	240.0	290.0
266.0	162.0	219.2	330.0	239.0	289.0
327.8	217.5	278.2	399.3	289.4	349.8
339.9	207.4	280.3	387.7	275.0	337.0
372.0	238.0	311.7	449.0	319.0	390.5
340.8	246.4	298.3	431.3	344.0	392.0
407.0	248.0	335.4	484.0	336.0	417.4
343.9	246.4	300.0	435.0	344.0	394.0
422.0	248.0	343.7	517.0	351.0	442.3
416.0	281.0	355.2	520.1	390.6	461.8
354.0	267.0	314.8	446.9	371.8	413.1

[illegible]	Comb Vol Higher	Final Label	EPA_FUEL	EPA_GHG	EPA_AMT
N	3.7	3.7			
N	4.2	4.2			
N	3.8	3.8			
N	3.7	3.7			
N	4.2	4.2			
N	4.2	4.2			
N	3.8	3.8			
N	3.6	3.6			
N	4.3	4.3			
N	4.5	4.5			
N	3.4	3.4			
N	3.4	3.4			
N	4.8	4.8			
N	4.8	4.8			
N	4.8	4.8			
N	3.6	3.6			
N	4.8	4.8			
N	5.3	5.3			
N	6.2	6.2			
N	4.3	4.3			
N	4.3	4.3			
N	4.8	4.8			
N	3.7	3.7			
N	3.8	3.8			
N	4.5	4.5			
N	5.6	5.6			
N	5.9	5.9			
N	7.1	7.1			
N	6.2	6.2			
N	7.1	7.1			
N	5.9	5.9			
N	7.1	7.1			
N	6.2	6.2			
N	7.1	7.1			
N	5.6	5.6			
N	5.6	5.6			
N	5.3	5.3			
N	4.8	4.8			
N	5.0	5.0			
N	4.8	4.8			
N	5.0	5.0			
N	4.8	4.8			
N	5.0	5.0			
N	5.0	5.0			

N	5.3	5.3
N	5.3	5.3
N	3.8	3.8
N	3.8	3.8
N	5.6	5.6
N	6.7	6.7
N	6.7	6.7
N	5.9	5.9
N	6.7	6.7
N	6.7	6.7
N	7.7	7.7
N	10.0	10.0
N	7.7	7.7
N	8.3	8.3
N	7.7	7.7
N	6.2	6.2
N	6.7	6.7
N	6.2	6.2
N	7.1	7.1
N	3.1	3.1
N	3.8	3.8
N	3.1	3.1
N	3.8	3.8
N	4.0	4.0
N	4.0	4.0
N	3.2	3.2
N	4.0	4.0
N	3.1	3.1
N	3.8	3.8
N	4.3	4.3
N	4.0	4.0
N	4.0	4.0
N	5.0	5.0
N	4.0	4.0
N	2.9	2.9
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N	3.8	3.8
N	3.7	3.7
N	4.0	4.0
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N	3.3	3.3
N	2.9	2.9
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N	4.0	4.0
N	3.6	3.6

N	2.9	2.9
N	3.8	3.8
N	2.2	2.2
N	3.0	3.0
N	2.9	2.9
N	3.8	3.8
N	3.8	3.8
N	3.6	3.6
N	3.6	3.6
N	2.9	2.9
N	2.9	2.9
N	4.0	4.0
N	3.8	3.8
N	4.3	4.3
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mined)

To: Good, David[good.david@epa.gov]
Cc: French, Roberts[french.roberts@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]
From: Thomas, Richard (EEO)
Sent: Fri 9/20/2013 10:33:15 AM
Subject: RE: 2014 FE Guide - Errors in EPA's database on Sept 16, 2013

Thanks Dave, yes those were in error, I corrected both models years and the highway and combined unadjusted MPG values in Verify this morning.

Have a nice weekend.

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Thursday, September 19, 2013 6:31 PM
To: Thomas, Richard (EEO)
Cc: French, Roberts; Snyder, Jim
Subject: re: 2014 FE Guide - Errors in EPA's database on Sept 16, 2013

Richard,

re: 2014 FE Guide - Errors in EPA's database on Sept 16, 2013

Richard, we found what we think is an error in the 2013 and 2014 Toaureg diesel indexes. Both are vehicle specific 5-cycle labels with what we think is an error in the unadjusted hwy and combined mpg values.

Attached are the data in Verify as of Sept 16, 2013 which were sent to DOE for posting on www.fueleconomy.gov. Labels with pea green fill in the first few columns have errors which need to be corrected.

The next normal posting of 2014 FE Label data on www.fueleconomy.gov will be Oct 1, 2013. Additionally, on Sept 20, 2013 (tomorrow), I'll send the releasable data to DOE for posting on

www.fueleconomy.gov which was error free as of September 16 and had release dates between Sept 18 and Sept 23, 2013.

If you need an important 2014 FE Label posted on the web before the next posting, please send me an email message and I'll be glad to have it posted earlier.

Please make any needed corrections to Verify when you get a chance.

Thanks

To: Good, David[good.david@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]; Olechiw, Michael[olechiw.michael@epa.gov]; Fernandez, Antonio[fernandez.antonio@epa.gov]; Julia Rege[jrege@globalautomakers.org]; Giedrius Ambrozaitis[gambrozaitis@autoalliance.org]; sdouglas@autoalliance.org[sdouglas@autoalliance.org]; Robert Maxwell[remaxwell@comcast.net]
Cc: Nam, Ed[nam.ed@epa.gov]; Mitcham, Arvon[mitcham.arvon@epa.gov]; Butler, Aron[butler.aron@epa.gov]; Laroo, Chris[laroo.chris@epa.gov]; Machiele, Paul[machiele.paul@epa.gov]; Sargeant, Kathryn[sargeant.kathryn@epa.gov]; Julie Becker[JBECKER@autoalliance.org]; Tamborra, Nick (EEO)[Nick.Tamborra@vw.com]; Susan Conti[sconti@autoalliance.org]
From: Passavant, Glenn
Sent: Tue 9/24/2013 4:37:59 PM
Subject: R-factor with Alliance and GAM
Summary of EPA Staff Approach for EDV &.pptx

All

Confirmed for tomorrow at 1 PM in Ann Arbor. Call-in number is Ex. 6 code Ex. 6 Ex. 6 Latest briefing material is attached. Giedrius and Julia, please forward on to your members

Glenn W. Passavant

US EPA/ASD

Acting Director

Data & Testing Center

Ann Arbor, MI 48105

734-214-4408(office)

517-902-7565(cell)

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Thur 9/26/2013 1:44:22 PM
Subject: FW: Confirmatory Test Date Reschedule

From: Haynes, Ben
Sent: Thursday, September 26, 2013 9:23 AM
To: Snyder, Jim
Subject: RE: Confirmatory Test Date Reschedule

I have rescheduled both vehicles for testing 24 October, 2013 in Verify.

Ben

From: Snyder, Jim
Sent: Thursday, September 26, 2013 8:58 AM
To: Haynes, Ben
Subject: FW: Confirmatory Test Date Reschedule

Hi Ben, Let me know if you don't see these revised availability dates come through on your side.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Thursday, September 26, 2013 8:47 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory
Subject: Confirmatory Test Date Reschedule

Hello Jim,

I processed new Decision Information files for the following test vehicles with hopes of rescheduling tests for the week of October 14th. Please let me know the scheduled dates as soon

as you can so flight arrangements can be made from Germany.

Ex. 4 - CBI

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Thur 9/26/2013 1:45:39 PM
Subject: RE: Confirmatory Test Date Reschedule

Thanks for the quick reply Jim.

Bill

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, September 26, 2013 9:44 AM
To: Rodgers, William (EEO)
Subject: FW: Confirmatory Test Date Reschedule

From: Haynes, Ben
Sent: Thursday, September 26, 2013 9:23 AM
To: Snyder, Jim
Subject: RE: Confirmatory Test Date Reschedule

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Sent: Thursday, September 26, 2013 8:47 AM
To: Snyder, Jim
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Hello Jim,

I processed new Decision Information files for the following test vehicles with hopes of rescheduling tests for the week of October 14th. Please let me know the scheduled dates as soon as you can so flight arrangements can be made from Germany.

Jetta 1.8T VID: VW361-4-0194

Passat 1.8T VID: VW411-4-0168

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Glas, Tobias
Sent: Tue 10/1/2013 7:25:02 AM
Subject: RE: EPA Coastdown results of VW Vehicles

Hi Jim !

Sorry for getting back to you so late but here are the answers about our Coast Down determination.

All our Coast downs are done in Ehra and we don't split Coast Down runs into different speed ranges.

Can you give me any information if the Coast Down verification was done by EPA or by a contractor?

If it was done by a contractor could you please forward me a contact information ?

Thank you very much !

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Friday, June 28, 2013 4:15 PM
To: Glas, Tobias
Subject: EPA Coastdown results of VW Vehicles

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Ball, Joel[ball.joel@epa.gov]; Ott, William[ott.william@epa.gov]; Dalton, Joel[Dalton.Joel@epa.gov]; Pidgeon, Bill[pidgeon.bill@epa.gov]; Anderson, Tom[Anderson.Tom@epa.gov]; Schlueter, Hannah (EASZ/1)[hannah.schlueter@volkswagen.de]; Peter, Juergen (EASZ/1)[juergen.peter@volkswagen.de]; Rech, Lothar (I/EA-523)[Lothar.Rech@AUDI.DE]; Handschel, Uwe (I/EA-523)[Uwe.Handschel@AUDI.DE]; Schmidt, Oliver (EEO)[Oliver.Schmidt@vw.com]; Johnson, Stuart (EEO)[Stuart.Johnson@vw.com]; Tamborra, Nick (EEO)[Nick.Tamborra@vw.com]; Sigelko, Jenny (EEO)[Jenny.Sigelko@vw.com]
From: Kata, Leonard (EEO)
Sent: Fri 10/4/2013 9:13:03 PM
Subject: RE: Volkswagen/Audi Meeting with EPA

Hello Jim:

It is not clear when you will see this message; however, I wanted to inform you that at this time, I assume that our meeting will not take place on Monday, October 7, 2013, as scheduled. I suspect that even if Congress reaches an agreement over the weekend, our meeting may not be your first priority on Monday morning.

Our colleagues from Volkswagen AG and Audi AG will be in Michigan throughout most of the week. Therefore, I propose that we meet at your convenience sometime this week, assuming that the government shutdown comes to an end. Our only preference would be to schedule the meeting either early in the day, or late in the day. Let me know your thoughts.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

-----Original Appointment-----
From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, September 12, 2013 5:48 PM
To: Snyder, Jim; Kata, Leonard (EEO); Wehrly, Linc; Ball, Joel; Ott, William; Dalton, Joel; Pidgeon, Bill; Anderson, Tom; Schlueter, Hannah (EASZ/1); Peter, Juergen (EASZ/1) (juergen.peter@volkswagen.de); Rech, Lothar (I/EA-523) (Lothar.Rech@AUDI.DE); Handschel, Uwe (I/EA-523) (Uwe.Handschel@AUDI.DE); Schmidt, Oliver (EEO); Johnson, Stuart; Tamborra, Nick (Nick.Tamborra@vw.com); Sigelko, Jenny (EEO)

Subject: Volkswagen/Audi Meeting with EPA
When: Monday, October 07, 2013 9:30 AM-11:30 AM (UTC-05:00) Eastern Time (US & Canada).
Where: AA-Room-Office-C35-ConfRoom/AA-OTAQ-OFFICE

When: Monday, October 07, 2013 9:30 AM-11:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: AA-Room-Office-C35-ConfRoom/AA-OTAQ-OFFICE

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*~*~*~*

Representatives from Volkswagen AG and Audi AG will be visiting the U.S. in early October 2013. We would like to take this opportunity to meet with you to discuss certification-related topics. The primary emission certification topic is the E-Golf preview for MY2015.

There may also be discussion regarding PHEV testing and calculations unless we have that at an earlier mtg.

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Glas, Tobias
Sent: Mon 10/21/2013 7:44:46 PM
Subject: RE: EPA Coastdown results of VW Vehicles

Hi Jim !

Hope everything is fine at EPA !

We have two Cert cars over at EPA this week and it looks like the tests will be run on Thursday.

I'm planning on coming over and would like to meet you for a quick talk.

Here is the questions I have:

Did you do the Coast Down testing yourself or did you hire a company ?

Are your SHED chambers fixed volume ? If not do they work with a bag or a moveable roof.

Please let me know if you can find a few minutes for me on Thursday.

Thanks

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Glas, Tobias
Sent: Tuesday, October 01, 2013 3:25 AM
To: 'Snyder, Jim'
Subject: RE: EPA Coastdown results of VW Vehicles

Hi Jim !

Sorry for getting back to you so late but here are the answers about our Coast Down determination.

All our Coast downs are done in Ehra and we don't split Coast Down runs into different speed ranges.

Can you give me any information if the Coast Down verification was done by EPA or by a contractor?

If it was done by a contractor could you please forward me a contact information ?

Thank you very much !

Tobias Glas

In-Use Emission Compliance Specialist

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Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Friday, June 28, 2013 4:15 PM
To: Glas, Tobias
Subject: EPA Coastdown results of VW Vehicles

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Glas, Tobias[Tobias.Glas@vw.com]; Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Tue 10/22/2013 8:02:29 PM
Subject: VW Vehicles

Hi Bill, I left you a voice mail that the test cells are back up and running sooner than I expected. Looks like they may run them Thursday after all. Its best if you can deliver the 2nd car in the morning so they can still prep it for Thursday.

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Wed 10/23/2013 1:35:43 PM
Subject: RE: VW Vehicles

Jim,

The Jetta is on its way to Ann Arbor this morning.

Thanks,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, October 22, 2013 4:02 PM
To: Glas, Tobias; Rodgers, William (EEO)
Subject: VW Vehicles

Hi Bill, I left you a voice mail that the test cells are back up and running sooner than I expected. Looks like they may run them Thursday after all. Its best if you can deliver the 2nd car in the morning so they can still prep it for Thursday.

To: Glas, Tobias[Tobias.Glas@vw.com]
From: Snyder, Jim
Sent: Wed 10/23/2013 7:59:16 PM
Subject: RE: EPA Coastdown results of VW Vehicles

I have Friday off so Thursday is better for me. We have a mtg w/ the lab at 8am but it usually ends b4 8:30.

Jim

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Wednesday, October 23, 2013 3:26 PM
To: Snyder, Jim
Subject: RE: EPA Coastdown results of VW Vehicles

Hi Jim !

In that case we'd like to offer a Jetta to be coasted down the next time you run tests.

I can either be at EPA tomorrow for the 7 am test or for the tests on Friday.

Please let me know what is more convenient for you.

Thanks

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, October 21, 2013 5:18 PM
To: Glas, Tobias
Subject: RE: EPA Coastdown results of VW Vehicles

Hi Tobias, yes they still plan to run them this week. I have a long mtg from 9:30 to 12:00 on thursday so we could get together before that but its safer to plan for after lunch.

RE the questions,

for coastdown testing we use our contractor for procuring test vehicles and sometimes for renting test facilities but we do all the testing and analysis ourselves.

Though I've heard of them , I don't believe our SHEDs have a bag but I need to confirm that.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946

snyder.jim@epa.gov

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Monday, October 21, 2013 3:45 PM
To: Snyder, Jim
Subject: RE: EPA Coastdown results of VW Vehicles

Hi Jim !

Hope everything is fine at EPA !

We have two Cert cars over at EPA this week and it looks like the tests will be run on Thursday.

I'm planning on coming over and would like to meet you for a quick talk.

Here is the questions I have:

Did you do the Coast Down testing yourself or did you hire a company ?

Are your SHED chambers fixed volume ? If not do they work with a bag or a moveable roof.

Please let me know if you can find a few minutes for me on Thursday.

Thanks

Tobias Glas

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Sent: Tuesday, October 01, 2013 3:25 AM
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Ex. 4 - CBI

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Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Friday, June 28, 2013 4:15 PM
To: Glas, Tobias
Subject: EPA Coastdown results of VW Vehicles

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Glas, Tobias
Sent: Wed 10/23/2013 8:01:31 PM
Subject: RE: EPA Coastdown results of VW Vehicles

OK, I'll be there tomorrow at 7 am and will contact you around 8:45.

See you tomorrow.

Tobias

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Wednesday, October 23, 2013 3:59 PM
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Tobias Glas

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Fax: (248) 754-4207

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To: 'Snyder, Jim'
Subject: RE: EPA Coastdown results of VW Vehicles

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E-Mail: Tobias.Glas@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Friday, June 28, 2013 4:15 PM
To: Glas, Tobias
Subject: EPA Coastdown results of VW Vehicles

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Mazaitis, Vincent[mazaitis.vincent@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Mon 10/28/2013 3:08:47 PM
Subject: RE: VW Passat - VW411-4-0168

Hi Vince,

Can you check to see what the timing will be for getting lab reports from both vehicles?

Thanks again,

Bill

From: Mazaitis, Vincent [mailto:mazaitis.vincent@epa.gov]
Sent: Friday, October 25, 2013 7:46 AM
To: Rodgers, William (EEO)
Cc: Snyder, Jim
Subject: RE: VW Passat - VW411-4-0168

Good morning Bill,

This vehicle ran particulates, and as I told Axel this morning, it takes an extra day. With it being Friday, I don't expect to see data today. If it comes in, I'll e-mail it as always.

If I don't talk to you, have a good weekend!

Vince Mazaitis

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Friday, October 25, 2013 7:09 AM
To: Mazaitis, Vincent
Cc: Snyder, Jim
Subject: VW Passat - VW411-4-0168

Hello Vince,

As is normal, we would appreciate receiving the lab results for the VW Passat testing done yesterday.

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]
From: Mazaitis, Vincent
Sent: Mon 10/28/2013 7:10:05 PM
Subject: VW361-4-0194
VW361-4-0194_10-25-13.pdf

Hello Bill,

Please find enclosed the Laboratory Test Data for the Subject vehicle. As per our phone conversation, I'll talk to Jim Snyder in the morning about the failed US06 CO, and either he or I will call you.

Thanks for your patience!

Vince Mazaitis

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0256-009 Vehicle ID: VW361-4-0194

Test Information

Test Date: 10/25/2013
Key Start / Hot Soak: 07:21:29 / 09:32
Fuel Container ID: F0027N
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 21 Federal fuel 2-day exhaust (w/can loa
Calculation Method: Gasoline
Pretest Remarks:

MFR Name: VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: S
Shift Schedule: A09980005
Beginning Odometer: 004557.0 MI
Drive Schedule: ftp3bag
Soak Period: 21.5 hours

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	5.264	34.674	0.716	0.737	2.563	
Ambient	2.884	0.000	0.008	0.042	1.930	
Net Concentration	2.540	34.674	0.709	0.697	0.740	1.672

Remarks:

Phase 2						
Sample	3.088	17.677	0.069	0.470	2.038	
Ambient	2.889	0.000	0.006	0.042	1.930	
Net Concentration	0.300	17.677	0.063	0.429	0.176	0.094

Remarks:

Phase 3						
Sample	3.647	33.667	0.093	0.624	2.403	
Ambient	2.708	0.000	0.006	0.042	1.927	
Net Concentration	1.066	33.667	0.087	0.584	0.566	0.402

Remarks:

Phase 4						
Sample						
Ambient						
Net Concentration						

Remarks:

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.032	0.890	0.027	280.9	0.011	0.021 / 0.022	31.561
	0.006	0.724	0.004	276.4	0.004	0.002 / 0.002	32.113
	0.014	0.862	0.003	235.1	0.008	0.005 / 0.005	37.695
						(NMOG=1.04xNMHC)	
Weighted	0.01358	0.79667	0.00841	265.945	0.00669	0.0068 / 0.0071	

Fuel Economy	Gasoline MPG
Phase 1	31.51
Phase 2	32.06
Phase 3	37.64
Weighted	33.29

Dyno Settings
Dyno #: D329 - FWD
Inertia: 3375
EPA Set Co A: -0.10
EPA Set Co B: 0.1619
EPA Set Co C: 0.01589
Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0256-009 Vehicle ID: VW361-4-0194

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.115	3.178	0.095	1003.5	0.039	0.076	1.173
	0.023	2.769	0.014	1056.9	0.016	0.007	
	0.048	3.088	0.012	841.9	0.030	0.018	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.32	29.32	29.33	
Avg Cell Temp (degF)	73.98	73.98	73.98	
Dew Point (degF)	46.93	47.70	47.99	
Specific Humidity (grains/lbm)	48.65	50.09	50.64	
NOx Corr Factor	0.8898	0.8952	0.8973	
CO2 Dilution Factor	18.095	28.389	21.338	
CFV Vmix (scf @68F)	2780.11	4751.59	2782.37	
CVS Flow Rate Avg (scfm)	328.30	327.62	329.02	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	508.10	870.20	507.40	
Distance (miles)	3.572	3.824	3.582	
Bag Analysis Time (secs)	52.0	61.8	64.3	

MFR Test Results for Procedure 21 Federal fuel 2-day exhaust (w/can load)

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10026304	0.007	0.09	0.0133	288	0	0.0045

Odometer	MPG	PM
4376 M	31.1	0.001

MPG is -6.59 % lower than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0256-008 Vehicle ID: VW361-4-0194

Test Information

Test Date: 10/25/2013
Key Start: 08:59:24
Fuel Container ID: F0027N
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 3
Calculation Method: Gasoline
Pretest Remarks:

MFR Name VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: S
Shift Schedule: A09980011
Beginning Odometer: 004557.0 MI
Drive Schedule: hwfet_hwfet

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	2.565	12.352	0.071	0.828	1.860	
Ambient	2.620	0.000	0.005	0.042	1.927	
Net Concentration	0.108	12.352	0.066	0.789	0.052	0.046

Remarks:

Phase 2
Sample
Ambient
Net Concentration

Remarks:

Phase 3
Sample
Ambient
Net Concentration

Remarks:

Phase 4
Sample
Ambient
Net Concentration

Remarks:

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.001	0.166	0.001	167.0	0.000	0.000 / 0.000	53.299

(NMOG=1.04xNMHC)

Fuel Economy	Gasoline MPG
Phase 1	53.22

Dyno Settings
Dyno #: D329 - FWD
Inertia: 3375
EPA Set Co A: -0.10
EPA Set Co B: 0.1619
EPA Set Co C: 0.01589

Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0256-008 Vehicle ID: VW361-4-0194

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.007	1.704	0.014	1709.8	0.004	0.003	1.173

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.36			
Avg Cell Temp (degF)	73.46			
Dew Point (degF)	48.15			
Specific Humidity (grains/lbm)	50.90			
NOx Corr Factor	0.8982			
CO2 Dilution Factor	16.158			
CFV Vmix (scf @68F)	4184.43			
CVS Flow Rate Avg (scfm)	328.15			

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.10
Distance (miles)	10.240
Bag Analysis Time (secs)	63.3

MFR Test Results for Procedure 3 HWFE

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10026305	0	0.021	0.0031	183	0	0

Odometer	MPG	PM
4387 M	48.9	0.002

MPG is -8.11 % lower than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0256-007 Vehicle ID: VW361-4-0194

Test Information

Test Date: 10/25/2013
Key Start: 10:06:06
Fuel Container ID: F0027N
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 89 us062bag (us06warmup_2bagus06)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: S
Shift Schedule: A09980041
Beginning Odometer: 004588.0 MI
Drive Schedule: us06warmup_2bagus06

Bag Data	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Phase 1						
Sample	9.180	723.494	2.237	0.780	3.842	
Ambient	2.806	0.371	0.018	0.044	1.996	
Net Concentration	6.552	723.147	2.220	0.739	1.973	4.238
Remarks:						
Phase 2						
Sample	5.142	572.540	0.277	0.965	2.922	
Ambient	2.796	0.377	0.015	0.044	1.991	
Net Concentration	2.560	572.192	0.263	0.924	1.082	1.290
Remarks:						
Phase 3						
Sample						
Ambient						
Net Concentration						
Remarks:						
Phase 4						
Sample						
Ambient						
Net Concentration						
Remarks:						

Results	HC-FID (gpm)	CO (gpm)	NOx (gpm)	CO2 (gpm)	CH4 (gpm)	NMHC / NMOG (gpm)	Vol MPG (mpg)
Phase 1	0.113	25.210	0.114	404.8	0.039	0.073 / 0.076	20.041
	0.019	8.708	0.006	221.1	0.009	0.010 / 0.010	37.962
Composite	0.04004	12.35617	0.02989	261.673	0.01606	(NMOG=1.04xNMHC) 0.0238 / 0.0247	

Fuel Economy	Gasoline MPG
Phase 1	20.01
Phase 2	37.90
Composite	31.61

Dyno Settings
Dyno #: D329 - FWD
Inertia: 3375
EPA Set Co A: -0.10
EPA Set Co B: 0.1619
EPA Set Co C: 0.01589
Emiss-Bench: Mexa 7200sle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0256-007 Vehicle ID: VW361-4-0194

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.200	44.597	0.202	716.0	0.070	0.129	1.173
	0.120	54.270	0.037	1377.7	0.059	0.061	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.37	29.36		
Avg Cell Temp (degF)	73.84	73.91		
Dew Point (degF)	48.11	48.49		
Specific Humidity (grains/lbm)	50.82	51.54		
NOx Corr Factor	0.8979	0.9007		
CO2 Dilution Factor	15.704	13.099		
CFV Vmix (scf @68F)	1870.51	2876.73		
CVS Flow Rate Avg (scfm)	472.95	472.89		

Fan Placement: US06 Only - One Large Fan - Up - Front

Phase Time (secs)	130.00	365.00	107.30
Distance (miles)	1.769	6.232	
Bag Analysis Time (secs)	63.7	276.0	

MFR Test Results for Procedure 90 US06

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10026306	0.0067	0.231	0.0084	273	0	0.0044

Odometer	MPG	PM
4412 M	32.7	0.002

MPG is 3.45 % higher than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Tue 10/29/2013 5:38:40 PM
Subject: US06 Retest - VW Jetta VID 0194

Hello Jim,

As discussed, we are requesting that our factory representatives be allowed to witness the set-up and start of testing for the US06 retest yet to be rescheduled. It is believed that the fan placement is critical to a successful outcome for this test.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Rodgers, William (EEO)
Sent: Tue 10/29/2013 6:28:41 PM
Subject: RE: US06 Retest - VW Jetta VID 0194

Jim,

As a precaution, we would like to know if one of our factory engineers can have access to the vehicle before running the retests to interrogate the ECM for faults?

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Rodgers, William (EEO)
Sent: Tuesday, October 29, 2013 1:39 PM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Subject: US06 Retest - VW Jetta VID 0194

Hello Jim,

As discussed, we are requesting that our factory representatives be allowed to witness the set-up and start of testing for the US06 retest yet to be rescheduled. It is believed that the fan placement is critical to a successful outcome for this test.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Mazaitis, Vincent
Sent: Tue 10/29/2013 7:17:58 PM
Subject: VW411-4-0168
VW411-4-0168_10-24-13.pdf

Hello Bill,

Please find enclosed the Laboratory Test Data for the Subject vehicle. If you have any questions or concerns, please contact me.

Thanks Bill,

Vince Mazaitis

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Tuesday, October 29, 2013 11:44 AM
To: Mazaitis, Vincent
Subject: Lab report for Passat

Hi Vince,

Can you send me the lab reports for the Passat 0168. We have the Verify results but the lab reports are much easier to digest.

Thanks,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

CERT

CVS

NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-007 Vehicle ID: VW411-4-0168

Test Information

Test Date:	10/24/2013	MFR Name	VOLKSWAGEN
Key Start / Hot Soak:	12:37:53 / 09:30	MFR Codes:	590 VWX
Fuel Container ID:	F0027N	Config #:	00
Fuel Type:	61 Tier 2 Cert Test Fuel	Transmission:	S
Test Procedure:	21 Federal fuel 2-day exhaust (w/can loa	Shift Schedule:	A09980005
Calculation Method:	Gasoline	Beginning Odometer:	004650.0 MI
Pretest Remarks:		Drive Schedule:	ftp3bag
		Soak Period:	25.0 hours

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	8.142	32.159	0.412	0.782	2.788	
Ambient	2.411	0.342	0.011	0.043	1.944	
Net Concentration	5.872	31.837	0.402	0.741	0.958	4.843

Remarks:

Phase 2						
Sample	2.641	0.684	0.084	0.505	1.952	
Ambient	2.381	0.124	0.009	0.043	1.959	
Net Concentration	0.349	0.565	0.075	0.464	0.066	0.278

Remarks:

Phase 3						
Sample	2.685	4.806	0.077	0.669	2.144	
Ambient	2.467	0.115	0.009	0.043	1.955	
Net Concentration	0.341	4.696	0.068	0.628	0.287	0.033

Remarks:

Phase 4						
Sample						
Ambient						
Net Concentration						

Remarks: This test has particulate results.

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.076	0.827	0.015	302.8	0.014	0.062 / 0.065	29.284
	0.007	0.024	0.005	305.0	0.002	0.006 / 0.006	29.216
	0.004	0.123	0.003	259.5	0.004	0.000 / 0.000	34.327
						(NMOG=1.04xNMHC)	
Weighted	0.02066	0.21790	0.00632	292.041	0.00497	0.0160 / 0.0167	

Fuel Economy	Gasoline MPG
Phase 1	29.24
Phase 2	29.17
Phase 3	34.27
Weighted	30.44

Dyno Settings	
Dyno #:	D329 - FWD
Inertia:	3625
EPA Set Co A:	9.78
EPA Set Co B:	0.3152
EPA Set Co C:	0.01580
Emiss-Bench:	Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-007 Vehicle ID: VW411-4-0168

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
							1.074
Phase 1	0.271	2.967	0.055	1085.9	0.051	0.224	
	0.028	0.091	0.018	1172.3	0.006	0.022	
	0.016	0.442	0.009	929.2	0.015	0.002	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.09	29.09	29.09	
Avg Cell Temp (degF)	74.03	74.09	74.13	
Dew Point (degF)	47.91	47.86	47.67	
Specific Humidity (grains/lbm)	50.91	50.82	50.44	
NOx Corr Factor	0.8983	0.8979	0.8965	
CO2 Dilution Factor	17.052	26.521	19.998	
CFV Vmix (scf @68F)	2797.63	4831.05	2825.70	
Total CVS Vmix (scf@68F)	2826.58	4859.69	2874.86	
CVS Flow Rate Avg (scfm)	330.82	333.18	333.94	
Fan Placement: One Fan - Up - Front				
Phase Time (secs)	507.40	870.00	507.70	
Distance (miles)	3.586	3.843	3.582	
Bag Analysis Time (secs)	927.0	132.0	59.2	

NVFEL Laboratory Test Data — PARTICULATE

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-007 — Vehicle ID: VW411-4-0168

Test Information

Test Date:	10/24/2013	MFR Name	VOLKSWAGEN
Key Start:	12:37:53 / 09:30	MFR Codes:	590 VWX
Fuel Container ID:	F0027N	Config #:	00
Fuel Type:	61 Tier 2 Cert Test Fuel	Transmission:	S
Test Procedure:	21 Federal fuel 2-day exhaust (w/can loa	Shift Schedule:	A09980005
Calculation Method:	Gasoline	Beginning Odometer:	004650.0 MI
Pretest Remarks:		Drive Schedule:	ftp3bag
		Soak Period:	25.0 hours

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1	A	413714	140.3459	140.3820	0.03618	10.594	2.955	
	B	413717	139.8275	139.8622	0.03467	10.152	2.831	
	C	413720	142.0161	142.0544	0.03829	11.220	3.129	
Remarks:								
Phase 2	A	413715	141.2543	141.2702	0.01596	4.748	1.236	
	B	413718	140.7665	140.7778	0.01125	3.350	0.872	
	C	413751	143.5460	143.5578	0.01177	3.511	0.913	
Remarks:								
Phase 3	A	413716	140.0291	140.0408	0.01165	3.479	0.971	
	B	413719	142.2443	142.2556	0.01136	3.396	0.948	
	C	413752	140.4976	140.5088	0.01115	3.338	0.932	
Remarks:								
Phase 4								
Remarks:	This test has particulate results.							

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.03638	10.655	2.972
Phase 2	0.01300	3.870	1.007
Phase 3	0.01139	3.404	0.951

All filter weights are corrected for buoyancy.

Weighted All Filters: 1.39918

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL
0.01	1	142.19042	142.19347	0.00305	PASS
	2	143.43520	143.43566	0.00046	PASS

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 9.78
EPA Set Co B: 0.3152
EPA Set Co C: 0.01580

Emissions Bencl Mexa 7200dle

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-007 Vehicle ID: VW411-4-0168

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	10/24/13 10:38	1.0011133	209123	71.8	49.1	29.06	NORM @ 10/23/13 11:32:11
Post-test	10/28/13 9:19	1.0011200	022298	72.3	49.1	29.26	NORM @ 10/25/13 18:55:46

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.09	29.09	29.09	
Avg Cell Temp (degF)	74.03	74.09	74.13	
Dew Point (degF)	47.91	47.86	47.67	
Specific Humidity (grains/lbm)	50.91	50.82	50.44	
NOx Corr Factor	0.8983	0.8979	0.8965	
Dilution Factor	17.05	26.52	20.00	
CFV Vmix (scf @68F)	2797.63	4831.05	2825.70	
Sample Volume A (scf @68F)	9.652	9.557	16.404	
Sample Volume B (scf @68F)	9.654	9.551	16.394	
Sample Volume C (scf @68F)	9.646	9.535	16.364	
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	9.651	16.387	9.547	
Total PM Vmix (scf @68F)	2826.58	4859.69	2874.86	
Phase Time (sec)	507.40	870.00	507.70	
Distance (miles)	3.586	3.843	3.582	
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	43.5	41.4	43.0	
PSU Dil Air B (degC)	41.5	41.3	41.9	
PSU Dil Air C (degC)	41.6	40.6	41.4	
PSU Filter A (degC)	44.8	45.2	45.1	
PSU Filter B (degC)	44.3	44.0	43.7	
PSU Filter C (degC)	43.6	43.4	43.4	
PSU Dil Flow A (lpm)	20.2	20.0	20.1	
PSU Dil Flow B (lpm)	20.2	20.0	20.0	
PSU Dil Flow C (lpm)	20.2	20.0	20.1	
PSU A Proportionality .				
PSU B Proportionality .				
PSU C Proportionality .				

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-009 Vehicle ID: VW411-4-0168

Test Information

Test Date: 10/24/2013
Key Start: 13:55:05
Fuel Container ID: F0027N
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 3
Calculation Method: Gasoline
Pretest Remarks:

MFR Name VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: S
Shift Schedule: A09980011
Beginning Odometer: 004661.0 MI
Drive Schedule: hwfet_hwfet

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	2.223	4.560	0.079	0.907	1.858	
Ambient	2.362	0.184	0.011	0.042	1.947	
Net Concentration	0.021	4.389	0.069	0.867	0.043	-0.026

Remarks:

Phase 2

Sample
Ambient
Net Concentration

Remarks:

Phase 3

Sample
Ambient
Net Concentration

Remarks:

Phase 4

Sample
Ambient
Net Concentration

Remarks:

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.000	0.060	0.001	185.8	0.000	0.000 / 0.000	47.959

(NMOG=1.04xNMHC)

Fuel Economy

Gasoline MPG
Phase 1 47.88

Coastdwn secs: 18.67, 18.72, 18.74, 18.71

Dyno Settings
Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 9.78
EPA Set Co B: 0.3152
EPA Set Co C: 0.01580
Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-009 Vehicle ID: VW411-4-0168

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
Phase 1	0.001	0.612	0.014	1899.4	0.003	0.000	1.074

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.08			
Avg Cell Temp (degF)	74.02			
Dew Point (degF)	46.80			
Specific Humidity (grains/lbm)	48.81			
NOx Corr Factor	0.8904			
CO2 Dilution Factor	14.764			
CFV Vmix (scf @68F)	4226.46			
CVS Flow Rate Avg (scfm)	331.44			

Fan Placement: One Fan - Up - Front

Phase Time (secs)	765.10
Distance (miles)	10.225
Bag Analysis Time (secs)	58.6

MFR Test Results for Procedure 3 HWFE

MFR Number	HC	CO	NOx	CO2	NMOG	NonMeth HC
10026348	0.0009	0.02	0.002	185	0	0.0006

Odometer	MPG
4497 M	48.4

MPG is 1.08 % higher than EPA MPG

MFR Lab: Volkswagen AG, Dept EASZ/1

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

CERT

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-008 Vehicle ID: VW411-4-0168

Test Information

Test Date: 10/24/2013
Key Start: 15:00:17
Fuel Container ID: F0027N
Fuel Type: 61 Tier 2 Cert Test Fuel
Test Procedure: 89 us062bag (us06warmup_2bagus06)
Calculation Method: Gasoline
Pretest Remarks:

MFR Name VOLKSWAGEN
MFR Codes: 590 VWX
Config #: 00
Transmission: S
Shift Schedule: A09980041
Beginning Odometer: 004685.0 MI
Drive Schedule: us06warmup_2bagus06

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	4.509	14.059	1.511	0.856	2.570	
Ambient	2.377	0.209	0.023	0.043	1.952	
Net Concentration	2.284	13.864	1.489	0.816	0.743	1.486

Remarks:

Phase 2						
Sample	4.658	13.397	1.046	1.043	2.286	
Ambient	2.383	0.183	0.026	0.043	1.957	
Net Concentration	2.461	13.229	1.022	1.004	0.481	1.944

Remarks:

Phase 3						
Sample						
Ambient						
Net Concentration						

Remarks:

Phase 4						
Sample						
Ambient						
Net Concentration						

Remarks: This test has particulate results.

Results	HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase 1	0.040	0.492	0.077	455.1	0.015	0.026 / 0.027	19.546
	0.019	0.206	0.023	245.7	0.004	0.015 / 0.016	36.215
						(NMOG=1.04xNMHC)	
Composite	0.02369	0.26963	0.03515	292.236	0.00670	0.0175 / 0.0182	

Fuel Economy	Gasoline MPG
Phase 1	19.52
Phase 2	36.16
Composite	30.43

Dyno Settings

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 9.78
EPA Set Co B: 0.3152
EPA Set Co C: 0.01580
Emiss-Bench: Mexa 7200dle

NVFEL Laboratory Test Data

CVS

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-008 Vehicle ID: VW411-4-0168

Results	HC-FID (grams)	CO (grams)	NOx (grams)	CO2 (grams)	CH4 (grams)	NMHC (grams)	Meth Response
							1.074
Phase 1	0.071	0.875	0.137	808.7	0.027	0.046	
	0.118	1.283	0.144	1529.6	0.027	0.093	

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.08	29.08		
Avg Cell Temp (degF)	73.85	73.93		
Dew Point (degF)	46.28	46.26		
Specific Humidity (grains/lbm)	47.85	47.80		
NOx Corr Factor	0.8868	0.8867		
CO2 Dilution Factor	15.624	12.821		
CFV Vmix (scf @68F)	1900.18	2921.05		
Total CVS Vmix (scf@68F)	1933.74	2921.05		
CVS Flow Rate Avg (scfm)	481.87	480.04		

Fan Placement: US06 Only - One Large Fan - Up - Front

Phase Time (secs)	130.00	365.10	106.60
Distance (miles)	1.777	6.225	
Bag Analysis Time (secs)	58.6	239.2	

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-008 Vehicle ID: VW411-4-0168

Test Information

Test Date:	10/24/2013	MFR Name	VOLKSWAGEN
Key Start:	15:00:17	MFR Codes:	590 VWX
Fuel Container ID:	F0027N	Config #:	00
Fuel Type:	61 Tier 2 Cert Test Fuel	Transmission:	S
Test Procedure:	89 us062bag (us06warmup_2bagus06)	Shift Schedule:	A09980041
Calculation Method:	Gasoline	Beginning Odometer:	004685.0 MI
Pretest Remarks:		Drive Schedule:	us06warmup_2bagus06

All filter weights are corrected for buoyancy.

Particulate	Filter Sampler	Filter No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Total Mass mg	Total Mass mg / mi	Filter comment
Phase 1	A	413753	140.8778	140.9142	0.03641	15.760	1.970	
	B	413754	141.2067	141.2347	0.02801	12.130	1.516	
	C	413755	141.2964	141.3269	0.03051	13.301	1.662	

Remarks:

Phase 2

Remarks:

Phase 3

Remarks:

Phase 4

Remarks: This test has particulate results.

Average Results

	Net Wt mg	Total Mass mg	Total Mass mg / mi
Phase 1	0.03164	13.730	1.716

All filter weights are corrected for buoyancy.

Reference Filter Stability Check

2% of Avg Net or 0.01 mg	No.	Tare (Pre Wt)	Gross (Post Wt)	Net Wt mg	Stability Check PASS/FAIL
0.01	1	142.19045	142.19174	0.00129	PASS
	2	143.43493	143.43643	0.00150	PASS

Dyno #: D329 - FWD
Inertia: 3625
EPA Set Co A: 9.78
EPA Set Co B: 0.3152
EPA Set Co C: 0.01580

Emissions Bencl Mexa 7200dle

NVFEL Laboratory Test Data

PARTICULATE

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2013-0257-008 Vehicle ID: VW411-4-0168

WEIGHING CHAMBER	Timestamp	Buoyancy Factor	Operator (Id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
Pre-test	10/24/13 10:56	1.0011128	209123	72.1	49	29.06	NORM @ 10/23/13 11:32:11
Post-test	10/28/13 9:47	1.0011204	022298	72.3	49.3	29.27	NORM @ 10/25/13 18:55:46

Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4
Barometer (inHg)	29.08	29.08		
Avg Cell Temp (degF)	73.85	73.93		
Dew Point (degF)	46.28	46.26		
Specific Humidity (grains/lbm)	47.85	47.80		
NOx Corr Factor	0.8868	0.8867		
Dilution Factor	15.62	12.82		
CFV Vmix (scf @68F)	1900.18	2921.05		
Sample Volume A (scf @68F)	11.217		6.795	
Sample Volume B (scf @68F)	11.210		6.789	
Sample Volume C (scf @68F)	11.136		6.753	
Sample Volume D (scf @68F)				
Sample Volume Average (scf @68F)	11.188	6.779		
Total PM Vmix (scf @68F)	1933.74	2921.05		
Phase Time (sec)	130.00	365.10	106.60	
Distance (miles)	1.777	6.225		
PSU Probe A (degC)				
PSU Probe B (degC)				
PSU Probe C (degC)				
PSU Dil Air A (degC)	43.0	-17.8		
PSU Dil Air B (degC)	41.8	-17.8		
PSU Dil Air C (degC)	41.3	-17.8		
PSU Filter A (degC)	44.1	-17.8		
PSU Filter B (degC)	43.8	-17.8		
PSU Filter C (degC)	43.1	-17.8		
PSU Dil Flow A (lpm)	19.9	0.0		
PSU Dil Flow B (lpm)	19.9	0.0		
PSU Dil Flow C (lpm)	19.9	0.0		
PSU A Proportionality .				
PSU B Proportionality .				
PSU C Proportionality .				

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 10/30/2013 11:03:06 AM
Subject: RE: US06 Retest - VW Jetta VID 0194

Thanks Jim,

Please let us know what the outcome of the road load determination is so we know what tests you decide will be rerun as discussed. If the initial FTP and HWY are not voided then we will make the decision whether to retest them or accept our factory numbers.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Tuesday, October 29, 2013 4:22 PM
To: Rodgers, William (EEO)
Cc: Giles, Michael (EEO); Allen, Gregory; Kata, Leonard (EEO)
Subject: RE: US06 Retest - VW Jetta VID 0194

Yes, just let us know when he is coming by.

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Tuesday, October 29, 2013 2:29 PM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory; Kata, Leonard (EEO)
Subject: RE: US06 Retest - VW Jetta VID 0194

Jim,

As a precaution, we would like to know if one of our factory engineers can have access to the vehicle before running the retests to interrogate the ECM for faults?

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Rodgers, William (EEO)
Sent: Tuesday, October 29, 2013 1:39 PM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Subject: US06 Retest - VW Jetta VID 0194

Hello Jim,

As discussed, we are requesting that our factory representatives be allowed to witness the set-up and start of testing for the US06 retest yet to be rescheduled. It is believed that the fan placement is critical to a successful outcome for this test.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Harris, Dale (EEO)[Dale.Harris@vw.com]
Cc: Kata, Leonard (EEO)[Leonard.Kata@vw.com]; French, Roberts[french.roberts@epa.gov]; Anderson, Tom[Anderson.Tom@epa.gov]
From: Good, David
Sent: Wed 10/30/2013 2:36:16 PM
Subject: RE: 2015MY GHG Pre-Model Template

Dale,

You can go ahead and use the template on the web for your 2015MY Pre-Model Year Report. You should modify it as needed to agree with the applicable regulations from the 2017 GHG rule, etc. For example, if VW uses the N2O and CH4 debit provisions outlined in 86.1818-12(f)(3) you should modify the credit provisions of the template accordingly. Also, if you run the AC17 test procedure instead of the AC idle test procedure, you'll have to modify the template (or put in a dummy value for the AC idle test).

Those are the only two things I can think of which need to be updated (off the top of my head). Please let me know if you see any other areas where the templates need to be updated.

Dave

From: Harris, Dale (EEO) [mailto:Dale.Harris@vw.com]
Sent: Wednesday, October 30, 2013 8:33 AM
To: Good, David
Cc: Kata, Leonard (EEO)
Subject: GHG Pre-Model Template

Dave

I am presently preparing the MY2015 Pre-Model GHG Report for submission by year end. During the process I noticed an expiration date on the GHG MS Excel based template that you provided several years ago. The expiration text has been pasted below.

OMB Control Number 2060-0644
Expires 10-31-2013

Based upon the expiration date, is it appropriate to use this template for the MY 2015 GHG Pre-Model Report as I have in the past? Is there another template available?? Please advise. Thanks!!!

Regards,

Dale Harris

Certification Specialist

VOLKSWAGEN Group of America, Inc.

Engineering and Environmental Office (EEO)
3800 Hamlin

AuburnHills Michigan 48326

United States of America

P: +1 248 754-4218

E: Dale.Harris@vw.com

To: Good, David[good.david@epa.gov]
From: Harris, Dale (EEO)
Sent: Wed 10/30/2013 2:37:21 PM
Subject: RE: 2015MY GHG Pre-Model Template

Thanks!!

Regards,

Dale Harris

Certification Specialist

VOLKSWAGEN Group of America, Inc.

Engineering and Environmental Office (EEO)
3800 Hamlin

AuburnHills Michigan 48326

United States of America

P: +1 248 754-4218

E: Dale.Harris@vw.com

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, October 30, 2013 10:36 AM
To: Harris, Dale (EEO)
Cc: Kata, Leonard (EEO); French, Roberts; Anderson, Tom
Subject: RE: 2015MY GHG Pre-Model Template

Dale,

You can go ahead and use the template on the web for your 2015MY Pre-Model Year Report.

You should modify it as needed to agree with the applicable regulations from the 2017 GHG rule, etc. For example, if VW uses the N2O and CH4 debit provisions outlined in 86.1818-12(f)(3) you should modify the credit provisions of the template accordingly. Also, if you run the AC17 test procedure instead of the AC idle test procedure, you'll have to modify the template (or put in a dummy value for the AC idle test).

Those are the only two things I can think of which need to be updated (off the top of my head). Please let me know if you see any other areas where the templates need to be updated.

Dave

From: Harris, Dale (EEO) [mailto:Dale.Harris@vw.com]
Sent: Wednesday, October 30, 2013 8:33 AM
To: Good, David
Cc: Kata, Leonard (EEO)
Subject: GHG Pre-Model Template

Dave

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OMB Control Number 2060-0644
Expires 10-31-2013

Based upon the expiration date, is it appropriate to use this template for the MY 2015 GHG Pre-Model Report as I have in the past? Is there another template available?? Please advise. Thanks!!!

Regards,

Dale Harris

Certification Specialist

VOLKSWAGEN Group of America, Inc.

Engineering and Environmental Office (EEO)
3800 Hamlin

AuburnHills Michigan 48326

United States of America

P: +1 248 754-4218

E: Dale.Harris@vw.com

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Thur 10/31/2013 4:18:04 PM
Subject: US06 fan pics
CAM01463.jpg
CAM01465a.JPG
CAM01464.jpg

Bill, here are some pics of our US06 fans. Can you pass them on?

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov


CHECK
WHEELS
DURING
USE


CAUTION


CHECK
WHEELS
DURING
USE

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Mazaitis, Vincent
Sent: Fri 11/1/2013 12:01:14 PM
Subject: RE: VW Jetta 0194 Transport

Good morning Bill,

Will do.

Have a great weekend!

Vince Mazaitis

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Friday, November 01, 2013 7:58 AM
To: Mazaitis, Vincent
Cc: Snyder, Jim
Subject: VW Jetta 0194 Transport

Hello Vince,

Please release the VW Jetta 0194 and provide Security the keys for transporter pick up today.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Good, David
Sent: Fri 11/1/2013 11:55:52 PM
Subject: 2014 FE Guide - dataset attached
VW_Group_2014 FEGuide-all rel dates-no-sales-11-1-2013.xlsx

Richard,

Here's the data in Verify as of 11/1/2013 9AM.

I didn't see any errors.

I'm out on Monday---back at it on Tues.

Dave

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Giles, Michael (EEO)
Sent: Tue 11/5/2013 6:29:53 PM
Subject: Volkswagen Group - Decision Info MY 2014 Test Group EADXV04.03UJ

Hello Jim,

Today we submitted Vehicle, test and decision information for the following MY 2014 vehicles.

Test Group	Vehicle ID	Purpose	Model	Comment
EADXV04.03UJ	E3UJ-BY62 config 0	EDV	Continental GT V8 S Convertible	New worst case vehicle for test group (RC in process to support new carline)
EADXV04.03UJ	E3UJ-BY62 config 1	FEDV	Continental GT V8 S	New FEDV test group (RC in process to support E.O. for new model)

A running change is in process. Please advise on confirmatory decision at your earliest convenience or contact me if you have any questions.

Regards,

Mike

Michael Giles

Certification Engineer – EEO

VW Group of America

(248) 754-4229

From: Snyder, Jim
Required Attendees: Snyder, Jim; Ott, William; Dalton, Joel; Wright, DavidA; Leonard.Kata@vw.com
Optional Attendees: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom; Good, David; French, Roberts
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Volkswagen teleconference on BEV and PHEVs
Start Date/Time: Wed 11/20/2013 2:00:00 PM
End Date/Time: Wed 11/20/2013 3:30:00 PM

For those interested. Phone conference with VW and Audi. Presentation on VW BEV and discuss Audi PHEV testing.

...A short while ago you had asked if Volkswagen had an interest in re-scheduling a meeting with EPA staff that was originally planned for October 7, 2013. This meeting was cancelled due to the government's partial shutdown. Although the original participants from the Volkswagen Group will not be in the U.S. to meet in person, we would appreciate an opportunity to discuss the topics via telephone conference. As a starting point, I propose that the call take place Tuesday, Nov. 19, 2013 at 9:00 a.m. The primary topics are:

* e-Golf Presentation
* PHEV Test Procedures

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Giles, Michael (EEO)
Sent: Tue 11/12/2013 10:21:42 PM
Subject: VW Group - Running Change / Revised Certificate Requested for EADXV04.03UJ - EADXR0130D61

Hello Jim,

Today we uploaded a revised application for test group EADXV04.03UJ, as well as a supporting running change letter.

This is for the addition of a new carline as well as a new engine code CMMD, which will support two new Bentley "S" models in this (Audi) test group as well as a new worst case exhaust EDV.

Please note the following:

- This topic is related to the tests which you waived last week for two new configurations in this test group. Manufacturer confirmatory tests were done and the results submitted today.

- The new carline "Continental GT Convertible" is also the new worst case exhaust EDV for this test group.

- In the application, we identified and corrected the evaporative tests which were incorrectly referenced in the previous application – this applies to evaporative family EADXR0130D61 only (see revision log).

We kindly request that a revised certificate be issued at your earliest convenience for test group EADXV04.03UJ with Evaporative Family EADXR0130D61 . Please contact myself or Bill Rodgers with any questions.

Regards,

Michael Giles

Certification Engineer – EEO

VW Group of America

(248) 754-4229

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Kata, Leonard (EEO)
Sent: Thur 11/14/2013 4:54:09 PM
Subject: RE: Re-scheduled Meeting with Volkswagen

Hello Jim:

Thanks for the reminder this morning regarding our telephone conference scheduled for Wednesday, November 20, 2013 (0900-1030). I have asked for advance copies of slides, etc., and will forward them to you upon receipt. Also, the call-in information is detailed below:

To join by phone dial:

Non-Responsive

The conference ID is:

Non-Responsive

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Kata, Leonard (EEO)
Sent: Thursday, November 07, 2013 3:01 PM
To: 'Snyder, Jim'
Subject: RE: Re-scheduled Meeting with Volkswagen

Jim:

Wednesday might be okay. Could you pencil that in and I will double-check?

Thanks,

Len

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, November 07, 2013 2:28 PM
To: Kata, Leonard (EEO)
Subject: RE: Re-scheduled Meeting with Volkswagen

Len, how committed are they to Tuesday? Linc has a directors mtg at 8:30 every Tuesday and then he has a group mtg with us at 10. Wed would be better.

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Thursday, November 07, 2013 2:18 PM
To: Snyder, Jim
Subject: Re-scheduled Meeting with Volkswagen

Hello Jim:

A short while ago you had asked if Volkswagen had an interest in re-scheduling a meeting with EPA staff that was originally planned for October 7, 2013. This meeting was cancelled due to the government's partial shutdown. Although the original participants from the Volkswagen Group will not be in the U.S. to meet in person, we would appreciate an opportunity to discuss the topics via telephone conference. As a starting point, I propose that the call take place Tuesday, Nov. 19, 2013 at 9:00 a.m. The primary topics are:

- e-Golf Presentation
- PHEV Test Procedures

Just as a reminder the original EPA participants list was:

Linc Wehrly

Jim Snyder

Joel Ball

William Ott

Joel Dalton

Bill Pidgeon

Tom Anderson

Let me know what you think. If it is a go, I will set up a local call-in number.

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Snyder, Jim
Required Attendees: Ott, William; Dalton, Joel; Wright, DavidA; Leonard.Kata@vw.com
Optional Attendees: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Volkswagen teleconference on BEV and PHEVs
Start Date/Time: Wed 11/20/2013 2:00:00 PM
End Date/Time: Wed 11/20/2013 3:30:00 PM

For those interested. Phone conference with VW and Audi. Presentation on VW BEV and discuss Audi PHEV testing.

.A short while ago you had asked if Volkswagen had an interest in re-scheduling a meeting with EPA staff that was originally planned for October 7, 2013. This meeting was cancelled due to the government's partial shutdown. Although the original participants from the Volkswagen Group will not be in the U.S. to meet in person, we would appreciate an opportunity to discuss the topics via telephone conference. As a starting point, I propose that the call take place Tuesday, Nov. 19, 2013 at 9:00 a.m. The primary topics are:

* e-Golf Presentation
* PHEV Test Procedures

From: Snyder, Jim
Required Attendees: Ott, William; Dalton, Joel; Wright, DavidA; Leonard.Kata@vw.com
Optional Attendees: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Volkswagen teleconference on BEV and PHEVs
Start Date/Time: Wed 11/20/2013 2:00:00 PM
End Date/Time: Wed 11/20/2013 3:30:00 PM

When: Wednesday, November 20, 2013 9:00 AM-10:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE

Note: The GMT offset above does not reflect daylight saving time adjustments.

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For those interested. Phone conference with VW and Audi. Presentation on VW BEV and discuss Audi PHEV testing.

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* e-Golf Presentation
* PHEV Test Procedures

From: Snyder, Jim
Required Attendees: Ott, William; Dalton, Joel; Wright, DavidA; Leonard.Kata@vw.com
Optional Attendees: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Volkswagen teleconference on BEV and PHEVs
Start Date/Time: Wed 11/20/2013 2:00:00 PM
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Required Attendees: Ott, William; Dalton, Joel; Wright, DavidA; Leonard.Kata@vw.com
Optional Attendees: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
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* e-Golf Presentation
* PHEV Test Procedures

From: Snyder, Jim
Required Attendees: Ott, William; Dalton, Joel; Wright, DavidA; Leonard.Kata@vw.com
Optional Attendees: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE
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* e-Golf Presentation
* PHEV Test Procedures

To: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Snyder, Jim
Sent: Thur 11/14/2013 5:08:56 PM
Subject: RE: Re-scheduled Meeting with Volkswagen

Thanks.

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Thursday, November 14, 2013 11:54 AM
To: Snyder, Jim
Subject: RE: Re-scheduled Meeting with Volkswagen

Hello Jim:

Thanks for the reminder this morning regarding our telephone conference scheduled for Wednesday, November 20, 2013 (0900-1030). I have asked for advance copies of slides, etc., and will forward them to you upon receipt. Also, the call-in information is detailed below:

To join by phone dial:

Non-Responsive

The conference ID is:

Non-Responsive

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Kata, Leonard (EEO)
Sent: Thursday, November 07, 2013 3:01 PM
To: 'Snyder, Jim'
Subject: RE: Re-scheduled Meeting with Volkswagen

Jim:

Wednesday might be okay. Could you pencil that in and I will double-check?

Thanks,

Len

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, November 07, 2013 2:28 PM
To: Kata, Leonard (EEO)
Subject: RE: Re-scheduled Meeting with Volkswagen

Len, how committed are they to Tuesday? Linc has a directors mtg at 8:30 every Tuesday and then he has a group mtg with us at 10. Wed would be better.

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Thursday, November 07, 2013 2:18 PM
To: Snyder, Jim
Subject: Re-scheduled Meeting with Volkswagen

Hello Jim:

A short while ago you had asked if Volkswagen had an interest in re-scheduling a meeting with EPA staff that was originally planned for October 7, 2013. This meeting was cancelled due to the government's partial shutdown. Although the original participants from the Volkswagen Group will not be in the U.S. to meet in person, we would appreciate an opportunity to discuss the topics via telephone conference. As a starting point, I propose that the call take place Tuesday, Nov. 19, 2013 at 9:00 a.m. The primary topics are:

- e-Golf Presentation
- PHEV Test Procedures

Just as a reminder the original EPA participants list was:

Linc Wehrly

Jim Snyder

Joel Ball

William Ott

Joel Dalton

Bill Pidgeon

Tom Anderson

Let me know what you think. If it is a go, I will set up a local call-in number.

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Kata, Leonard (EEO)
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: Accepted: Volkswagen teleconference on BEV and PHEVs
Start Date/Time: Wed 11/20/2013 2:00:00 PM
End Date/Time: Wed 11/20/2013 3:30:00 PM

To: Good, David[good.david@epa.gov]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Snyder, Jim[Snyder.Jim@epa.gov]
From: Kata, Leonard (EEO)
Sent: Fri 11/15/2013 10:05:02 PM
Subject: Volkswagen/Porsche Merger

Hello Dave:

As a follow-up to our telephone conversation today, I am providing the following information.

Our interpretation of the NHTSA regulations at 49 CFR 534.4(b) requires that we combine Volkswagen and Porsche for CAFE reporting purposes beginning with the 2013 model year.

As you noted, the acquisition took place in August 2012. Traditionally, Volkswagen's model years run from June to June, as opposed to September to September. By August, we were well into the 2013 model year. Therefore, we are treating Volkswagen as becoming the successor during the 2013 model year and reporting Volkswagen and Porsche vehicles as though they were manufactured by the same manufacturer, for that model year.

With respect to reporting for Greenhouse Gas requirements, Volkswagen applies the provisions of 40 CFR 86.1818-12(e)(1)(i)(D), which requires the two entities to meet the standards as a single manufacturer, beginning with the model year that is numerically two years greater than the calendar year in which the merger took place (i.e., model year 2014).

Please let me know if there are any further questions.

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Allen, Gregory
Sent: Mon 11/18/2013 2:24:57 PM
Subject: MY2015 Volkswagen Group Certification Preview Documents

Hello Mr. Snyder,

Just as an fyi – the MY2015 Volkswagen Group Certification Preview Documents were uploaded to Verify under the VGA manufacturer code.

If you have any questions/concerns please let me know.

Best Regards / Mit freundlichen Grüßen,

Greg Allen

Emissions Certification Engineering Analyst

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

U.S.A.

Phone: (248) 754-4209

E-mail: Gregory.Allen@vw.com

From: Snyder, Jim
Location: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE
Importance: Normal
Subject: FW: Volkswagen teleconference on BEV and PHEVs
Start Date/Time: Wed 11/20/2013 2:00:00 PM
End Date/Time: Wed 11/20/2013 3:30:00 PM

-----Original Appointment-----
From: Snyder, Jim
Sent: Thursday, November 14, 2013 12:08 PM
To: Snyder, Jim; Ott, William; Dalton, Joel; Wright, DavidA; Leonard.Kata@vw.com
Cc: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Subject: Volkswagen teleconference on BEV and PHEVs
When: Wednesday, November 20, 2013 9:00 AM-10:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: AA-Room-Office-C34-ConfRoom/AA-OTAQ-OFFICE

For those interested. Phone conference with VW and Audi. Presentation on VW BEV and discuss Audi PHEV testing.

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* e-Golf Presentation
* PHEV Test Procedures

To: Snyder, Jim[Snyder.Jim@epa.gov]; Ott, William[ott.william@epa.gov]; Dalton, Joel[Dalton.Joel@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Ball, Joel[ball.joel@epa.gov]; Pidgeon, Bill[pidgeon.bill@epa.gov]; Anderson, Tom[Anderson.Tom@epa.gov]
From: Kata, Leonard (EEO)
Sent: Tue 11/19/2013 6:22:11 PM
Subject: RE: Volkswagen teleconference on BEV and PHEVs
e-Golf_EPA.PDF

To all:

Attached, for your information, is an advance copy of the slide presentation for the e-Golf topic. I do not have the final version of the PHEV material yet, but I will provide it as soon as it is available.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

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From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, November 14, 2013 12:08 PM
To: Snyder, Jim; Ott, William; Dalton, Joel; Wright, DavidA; Kata, Leonard (EEO)
Cc: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Subject: Volkswagen teleconference on BEV and PHEVs
When: Wednesday, November 20, 2013 9:00 AM-10:30 AM (UTC-05:00) Eastern Time (US & Canada).
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- e-Golf Presentation
- PHEV Test Procedures

To: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Snyder, Jim
Sent: Tue 11/19/2013 8:28:50 PM
Subject: RE: Volkswagen teleconference on BEV and PHEVs

Len, do you have a teleconference phone # and passcode for us to use?

Do you think you will have any handout docs for the PHEV portion? Several extra people are attending to hear about the PHEV test comments. That is a topical subject right now.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Tuesday, November 19, 2013 1:22 PM
To: Snyder, Jim; Ott, William; Dalton, Joel; Wright, DavidA
Cc: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Subject: RE: Volkswagen teleconference on BEV and PHEVs

To all:

Attached, for your information, is an advance copy of the slide presentation for the e-Golf topic. I do not have the final version of the PHEV material yet, but I will provide it as soon as it is available.

Best regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

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From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, November 14, 2013 12:08 PM
To: Snyder, Jim; Ott, William; Dalton, Joel; Wright, DavidA; Kata, Leonard (EEO)
Cc: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
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To: Snyder, Jim[Snyder.Jim@epa.gov]; Ott, William[ott.william@epa.gov]; Dalton, Joel[Dalton.Joel@epa.gov]; Wright, DavidA[Wright.DavidA@epa.gov]; Good, David[good.david@epa.gov]; French, Roberts[french.roberts@epa.gov]
Cc: Wehrly, Linc[wehrly.linc@epa.gov]; Ball, Joel[ball.joel@epa.gov]; Pidgeon, Bill[pidgeon.bill@epa.gov]; Anderson, Tom[Anderson.Tom@epa.gov]
From: Kata, Leonard (EEO)
Sent: Wed 11/20/2013 11:37:48 AM
Subject: RE: Volkswagen teleconference on BEV and PHEVs
EPA_PHEV.PDF
EPA Sample PHEV_correction.xls

To all:

Attached is the presentation regarding PHEV Test Procedures for our meeting this morning. As mentioned to Jim Snyder, I will come to EPA with some extra copies. All others from the VW Group will be on the telephone.

Best regards,

Len

Leonard W. Kata
Senior Manager
Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com

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From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, November 14, 2013 12:08 PM
To: Snyder, Jim; Ott, William; Dalton, Joel; Wright, DavidA; Kata, Leonard (EEO)
Cc: Wehrly, Linc; Ball, Joel; Pidgeon, Bill; Anderson, Tom
Subject: Volkswagen teleconference on BEV and PHEVs
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- e-Golf Presentation
- PHEV Test Procedures

To: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Good, David[good.david@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]; Harris, Dale (EEO)[Dale.Harris@vw.com]; Ross Gatzke[Ross.Gatzke@porsche.us]
From: Thomas, Richard (EEO)
Sent: Wed 11/20/2013 1:12:10 PM
Subject: 2013 Volkswagen Group Final CAFE and Starter Data File

Hello Bob;

I would like to get a jump start of the 2013 Final CAFE for the Volkswagen Group and I am requesting that you send me the files you normally send me with the brand model type label indexes that I can modify for the CAFE work. The 2013 Volkswagen Group CAFE will include the brands of Volkswagen, Audi, Bentley, Lamborghini, Bugatti and Porsche.

The import passenger car category CAFE includes the brands of Volkswagen, Audi, Bentley, Lamborghini, Bugatti and Porsche. There is only one domestic passenger car category CAFE and that includes the Volkswagen Passat from Chattanooga, label indexes 062, 063, 064, 082 and 083. If you wanted to include both import and domestic passenger cars in one file that would also be okay for me to start my work. The truck category would include the brands of Volkswagen, Audi and Porsche.

Porsche will not be part of the Volkswagen Group and the EPA GHG reporting until model year 2014.

If you have any questions, please let me know.

Thanks and best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326

Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Allen, Gregory[Gregory.Allen@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 11/20/2013 4:47:23 PM
Subject: Request for Submittal Extension
Request for Submission Extension 11-20-2013.pdf

Hello Jim,

We are submitting the attached letter to get Agency approval for a 90-day extension for the submittal of 2013 Application Common Sections.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

VOLKSWAGEN

GROUP OF AMERICA

Mr. Jim Snyder
Compliance and Innovative Strategies Division
Office of Mobile Sources
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105

Leonard W. Kata Name
Manager – Emis. Cert. Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

November 20, 2013 Date

Subject: Request for Extension of Model Year 2013 Volkswagen Group Common Sections Submittal.

Dear Mr. Snyder,

We are requesting an extension of up to 90 days, as allowed by regulation, for the submission of the Volkswagen Group model year 2013 Common Sections. This request is necessary to allow us to add the final sales figures for the 2013 model year. All other model year 2013/14 applications will be submitted by the December 31, 2013 deadline. We will submit the 2013 Common Sections with as short of a delay as possible.

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

If you have any questions with regard to this request, please contact our office in Auburn Hills at (248)754-4219.

Sincerely,

Leonard W. Kata
Volkswagen Group of America, Inc.

Engineering and Environmental Office

Enclosure(s)

To: Rech, Lothar (I/EA-523)[Lothar.Rech@AUDI.DE]; 'synder.jim@epa.gov'[synder.jim@epa.gov]
Cc: leonard.kata@vw.com[leonard.kata@vw.com]; stuart.johnson@vw.com[stuart.johnson@vw.com]; French, Roberts[french.roberts@epa.gov]; Ott, William[ott.william@epa.gov]
From: Good, David
Sent: Wed 11/20/2013 5:55:12 PM
Subject: RE: VWGoA PHEV Test Procedures Question
2014 generic EV Label calculations-1-18-13.xlsm
2014 Generic non-blended PHEV FE Label calculator 713.xlsx
non-blended PHEV Utility Factor calculator-(dgood)-4-4-2012.xlsx
PHEV_AER_CO2evaluation-from Lothar-11-20-2013.pdf

Lothar,

For CO2 calculations, you should use the CD emissions up to and including the 3.59 or 3.91 mile transition bag (not the 7.5 mile transition UDDS cycle). You should use the sequential multi-day individual utility factors (MDIUFs) not the fleet utility factors shown in your spreadsheets, ref 600.116(b)(2) Table 3. [The utility factors shown in your spreadsheets are not correct.]

1. Start by calculating a running utilitized adjusted CO2 value (e.g. tested CO2/0.7) for each sequential 3.59 or 3.91 bag (including the transition bag). That becomes your adjusted city CD CO2 emission value (grams/mi). See 600.116(b)(2) and Table 3 in those regulations. [For your base example, I calculate sequential CD city CO2 value of zero for bags 1-13 and 1.65 g/mi for bag 14 (82.40 x .02 = 1.65 g/mi) for a total CO2 value over the 14 bag cycles of 1.65 g/mi.]

2. Next, you use the sum of the sequential MDIUFs to determine the total MDIUF---which will be used to combine the adjusted city CD CO2 emission value (gr/mi) with the adjusted highway CS CO2 value.

3. Next, use this same approach for the highway test using the sequential MDIUF's in 600.116(b)(2) Table 4----to determine the adjusted highway CD CO2 emission value (in grams/mile).

4. Next, you combine the city CD CO2 value with the city CS CO2 value (determined from a separate 4-bag FTP) using the formula CO2 (Utilitized city) = (UFcity x CD CO2) + [(1-UFcity) x CS CO2].

5. Next you combine the hwy CD CO2 value with the hwy CD CO2 similarly.

6. Then you combine the city & highway CO2 values using a straight arithmetic average (not a harmonic average) weighting the city CO2 value 55% and the highway CO2 value 45%.

For the fuel economy, annual fuel cost values, etc---which go on the FE Labels, you should use Chris Never's spreadsheet.

Attached are FE Label calculators for EVs and for non-blended PHEVs. Also attached is a utility factor calculator for non-blended PHEVs.

Hope this helps.

Dave

From: Rech, Lothar (I/EA-523) [mailto:Lothar.Rech@AUDI.DE]
Sent: Wednesday, November 20, 2013 9:07 AM
To: 'synder.jim@epa.gov'; Good, David
Subject: WG: VWGoA PHEV Test Procedures Question

Hello Jim and Dave,

there are a presentation with a question about PHEV and CO2 calculation.

Best regards

Lothar

Mit freundlichen Grüßen

Lothar Rech
Aggregatezulassung Ingolstadt

AUDI AG
I/EA-523
D-85045 Ingolstadt
Tel.: +49-841-89-34150
lothar.rech@audi.de
www.audi.com

Sitz/Domicile: Ingolstadt
Registergericht/Court of Registry: Amtsgericht Ingolstadt
HRB Nr./Commercial Register No.: 1
Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: Martin Winterkorn
Vorstand/Board of Management: Rupert Stadler (Vorsitzender/Chairman), Luca de Meo, Frank Dreves, Ulrich Hackenberg, Bernd Martens, Thomas Sigi, Axel Strotbek

Wichtiger Hinweis: Die vorgenannten Angaben werden jeder E-Mail automatisch hinzugefügt und lassen keine Rückschlüsse auf den Rechtscharakter der E-Mail zu.
Important Notice: The above information is automatically added to this e-mail. This addition does not constitute a representation that the content of this e-mail is legally relevant and/or is intended to be legally binding upon AUDI AG.

Derived 5-cycle MPG Calculations For Electric Vehicles

Please Enter:

Model Year: 2014

Manufacturer Name: xxxxxxx

Model Name yyyyyyyy

Test Date: xx/yy/2013

Values in Yellow fill are used on FE Labels (window stickers)

I. Calculate Electric vehicle FE Label city, Hwy, Combined FE values using the 2008 (derived 5-cycle) method and the 30% cap method:

Enter unadjusted unrounded kW-hr/100mi Values (in red text blocks) as determined from SAE J1634:

		City (round mpg to 0.1mpg)	Highway (round mpg to 0.1mpg)	Calculated unadjusted combined	Units
Elect veh FE	unrounded kW-hr/100 mi	19.3900	25.3000	22.0495	kW-hr/100 mi
Elect veh FE	converted to mpg	**173.8**	**133.2**	152.8366	mpg

2008 FE Label method (Derived 5-cycle)

	Derived 5-cycle City	Derived 5-cycle Hwy	Adjusted Combined	Units
Calculate derived 5-cycle mpg:	**99.5**	**87.1**	**93.5**	mpg
convert back to kW-hr/100 mi:	**33.9**	**38.7**	**36.0**	**kW-hr/100 mi Derived 5-cycle**
Percent adjustment mpg:	**42.8%**	**34.6%**	**38.8%**	percent
MPG w/ 30% Cap	121.7	93.2	106.9856	MPGe with 30 % Cap
convert back to kW-hr/100 mi:	27.7043	36.1486	31.5042	kW-hr/100 mi w/30 % Cap
			31.5	
2014 Label Values:				
Rounded MPG w/30% cap:	122	93	107	
Rounded kW=hr/100 mi:	28	36	32	

II. Calculate Electric vehicle driving ranges using the unadjusted SAE J1634 method and the 2008 (derived 5-cycle) method:

Enter unadjusted City & Hwy Range Values in miles (in red text blocks) as determined from SAE J1634:

	City Range	Hwy Range	Combined Range	Rounded Range	Units	Method:
Calculate unadjusted driving range:	111.293	89.42	101.4502	101	miles	Unadjusted (SAE J1634)
Calculate adjusted driving range (2008 method, No Cap):	63.7	58.5	62.0636	62	miles	2008 (derived 5-cycle, mpg-based, No Cap)
Calculate adjusted driving range (2008 method, 30% Cap):	77.9	62.6	71.0151	71	miles	2008 (derived 5-cycle, mpg-based, 30% Cap)

III. Calculate Electric vehicle annual fuel cost and 5-year savings, per 40 CFR 600.311-12(e)

2008 MPG Factors:

ref. 40 CFR 600.210-08

City Intercept:	0.00326
City Slope:	1.1805
Hwy Intercept:	0.00138
Hwy Slope:	1.3466

Petroleum Equivalency Factor for electricity; ref 10 CFR 474.3

33,705 watt-hr/gallon w/o 6.667 CAFE incentive no fuel fired accessories

Enter Average 2014 5-year Fuel Cost: $11,500

Enter U.S. electricity costs: $0.12 per kw-hr (from CD-12-18 for 2014)

Calculate unrounded adjusted combined miles/kw-hr: 3.17418 mi/kw-hr

Annual Miles	Cost	Units	Unrounded Annual Fuel Cost*	Method	2014 Label Rounded Annual Fuel Cost	2014 Label 5-year Amount You Save:
15,000	$0.12	per kw-hr	$648.00	2008 (derived 5-cycle, mpg-based, No Cap)	$650.00	$8,250
15,000	$0.12	per kw-hr	$567.08	2008 (derived 5-cycle, mpg-based, 30% Cap)	$550.00	$8,750

*Note: Annual fuel costs should be ASTM rounded to the nearest $50.

2013 Generic PHEV FE Label Calculator - based on Fisker 2012 test data (where CS method = 5-cycle)

original test data from Chris 3/7/2012; Redline = FE Label Calcs by D. Good 5/29/2012; blue =D.Good 8/21/12

Note: Rounding in this spreadsheet is per Excel (not ASTM)---you need to double check the spreadsheet rounding.

	EPA City1	EPA Hwy1
recharge	20.4190 kWhrs	20.2480
Cd miles	50.2980 miles, raw	47.6800
Consumption	40.5960 kWhrs/100 miles,raw	42.4700
MPGe	83.0253 Raw	79.3619
MPGe	58.1177 Label	55.5533
Consumption	57.9944 Label	60.6714
Range	35.2086 Label	33.3760
CS Raw mpg	26.7000 Raw	30.2000
CS Label mpg	21.1000 Label	21.8000
CS CO2 unadjusted	333	296

2014 Fuel Costs:		per CISD-12-18, Nov 16,2012
Electricity:	0.12	$/kW-hr
Gasoline:	$3.75	Premium
5 Year Cost:	$11,500	

	EPA City2	EPA Hwy2
recharge	21.1300 kWhrs	20.8700
Cd miles	46.1400 miles, raw	46.2800
Consumption	45.7954 kWhrs/100 miles,raw	45.0951
MPGe	73.5991 Raw	74.7421
MPGe	51.5194 Label	52.3195
Consumption	65.4220 Label	64.4215
Range	32.2980 Label	32.3960
CS Raw mpg	23.3000	29.2000
CS Label mpg	18.5000	21.1000
CS CO2 unadjusted	403	305

Official Values (harmonic/arithmetic average of EPA1 & EPA2 data)

	Official City	Official Hwy	Combined Unrounded	Combined Rounded	
CD miles	48.2190 miles, raw	46.9800			
CD Consumption	43.1957 kWhrs/100 miles,raw	43.7825			
CD Adj Consumption	61.7082 kW-hrs/100 miles,label	62.5465	62.0854	62	kw-hr/100 miles
CD MPGe, Raw	78.0286 Raw	76.9827			
CD MPGe, Label	54.6200 Label	53.8879	54.2881	54	mpge
CD Range	33.7533 miles, label	32.8860	33.3630	33	miles
CS Raw mpg	24.8844 Raw	29.6916			
CS Label unrounded mpg	19.7146 Label	21.4443	20.4572	20	mpg
CS Label (rounded) mpg	20 Label	21 Label			
CS Label gal/100 miles				5.0	gal/100 mi
CS CO2 unadjusted	368.0 (2 cycle)	300.5 (2 cycle)	337.6000	338	
CS CO2 adjusted	458.7 (5 cycle)	430.1 (5 cycle)	445.7981	446	GHG 1-10 rating
Composite CO2	174.3000 (5 cycle)	163.4000 (5 cycle)	169.3950	169	10
Fleet UF	0.8600	0.5600			
MDIUF	0.6200	0.6200 (revised from 0.6100)			
HOV UF	0.7300	0.7200			

			Combined Unrounded	Combined Rounded	FE 1-10 rating
Composite MPGe	32.65182 (city)	34.21646 (hwy)	33.3378	33	8
	33.33783 (combined)				

Annual Fuel Cost Calculations per 600.311-12(e)(3):

			Annual Fuel Cost Unrounded	Annual Fuel Cost Rounded	
CD $/mile:	$0.074400 using rounded kw-hr/100 mile	$0.075600			
CS $/mile:	$0.187500 using rounded mpg value	$0.178571			
Composite $/mile:	$0.117378	$0.114729			
Ann Fuel Cost:			$1,742.79	$1,750	
Fuel savings over 5 years:			You Save:	$2,750	over 5 years

Smog 1-10 Rating: Federal Emission Certification: Bin 5 Smog Rating: 5 per CISD-12-18, Nov 16,2012

Fleet Composite MPGe	60.06864	45.26244	
	52.36093		
HOV MPGe	49.49093	53.23956	Mdiuf w/raw numbers
	51.11035		

FE Label Utility Factor Calculator (MDIUF using formula from SAE J2841, section 6.2)

(which is more accurate than using EPA regulations at 600.116-12(b)(2), Tables 3 & 4). D.Good 11/14/2014

Mfr: XXXX **Vehicle:** 2013 XXXX **Model Year:** 20XX **DATE:** xx/xx/xxxx

Instructions: Enter the Adjusted city & hwy Rcda (e.g. unadjusted Rcda x 0.7) in the light blue fields:

	FUF		MDIUF
	Coefficients for City	Coefficients for Hwy	City/Hwy
1	14.86	4.8	13.10
2	2.965	13	−18.70
3	−84.05	−65	5.22
4	153.7	120	8.15
5	−43.59	−100	3.53
6	−96.94	31	−1.34
7	14.47		−4.01
8	91.7		−3.90
9	−46.36		−1.15
10			3.88
Normarized Distance	399	399	399

City

Rcda	MDIUF City
52.5196	1.7243277193
52.5196	−0.3239952436
52.5196	0.0119046339
52.5196	0.0024465363
52.5196	0.0001394817
52.5196	−0.0000069694
52.5196	−0.0000027453
52.5196	−0.0000003514
52.5196	−0.0000000136
52.5196	0.0000000061
UF(cumulative)	0.757028968311031
UF(rounded):	**0.76**

Hwy

Rcda	MDIUF Highway
42.602	1.3987122807
42.602	−0.2131845815
42.602	0.0063539205
42.602	0.0010592195
42.602	0.0000489847
42.602	−0.0000019854
42.602	−0.0000006344
42.602	−0.0000000659
42.602	−0.0000000021
42.602	0.0000000007
UF(cumulative)	0.696686130597550
UF(rounded):	**0.70**

D.Good Calcs for Combined city/hwy Utility Factor (for info only)

Combined range = **48.05668**

	Coefficients for City	Coefficients for Hwy	City/Hwy
1	14.86	4.8	13.10
2	2.965	13	−18.70
3	−84.05	−65	5.22
4	153.7	120	8.15
5	−43.59	−100	3.53
6	−96.94	31	−1.34
7	14.47		−4.01
8	91.7		−3.90
9	−46.36		−1.15
10			3.88
Normarized Distance	399	399	399

Rcda Combined	MDIUF Combined
48.05668	1.5778007719
48.05668	−0.2712709846
48.05668	0.0091203837
48.05668	0.0017150670
48.05668	0.0000894703
48.05668	−0.0000040906
48.05668	−0.0000014744
48.05668	−0.0000001727
48.05668	−0.0000000061
48.05668	0.0000000025
UF(cumulative)	0.732182357094415
UF(rounded):	**0.73**

City unadj Rcda:	75.028
No. of UDDS cycles:	10.00373
Hwy unadj Rcda:	60.86
No. of Hwy cycles:	5.90874

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Thur 11/21/2013 5:34:15 PM
Subject: RE: Request for Submittal Extension
request for extension.pdf

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, November 20, 2013 11:47 AM
To: Snyder, Jim
Cc: Allen, Gregory; Giles, Michael (EEO); Kata, Leonard (EEO)
Subject: Request for Submittal Extension

Hello Jim,

We are submitting the attached letter to get Agency approval for a 90-day extension for the submittal of 2013 Application Common Sections.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Giles, Michael (EEO)
Sent: Fri 11/22/2013 1:58:04 PM
Subject: RE: VW Group - Running Change / Revised Certificate Requested for EADXV04.03UJ - EADXR0130D61

Hello Jim,

Could you let us know the status for the running change and new cert request below? We are ready to work on the FE label but need the certificate.

Thanks,

Mike

From: Giles, Michael (EEO)
Sent: Tuesday, November 12, 2013 5:22 PM
To: Snyder, Jim
Cc: Rodgers, William; Allen, Gregory
Subject: VW Group - Running Change / Revised Certificate Requested for EADXV04.03UJ - EADXR0130D61

Hello Jim,

Today we uploaded a revised application for test group EADXV04.03UJ, as well as a supporting running change letter.

This is for the addition of a new carline as well as a new engine code CMMD, which will support two new Bentley "S" models in this (Audi) test group as well as a new worst case exhaust EDV.

Please note the following:

- This topic is related to the tests which you waived last week for two new configurations in this test group. Manufacturer confirmatory tests were done and the results submitted today.

- The new carline "Continental GT Convertible" is also the new worst case exhaust EDV for this test group.

- In the application, we identified and corrected the evaporative tests which were incorrectly referenced in the previous application – this applies to evaporative family EADXR0130D61 only (see revision log).

We kindly request that a revised certificate be issued at your earliest convenience for test group EADXV04.03UJ with Evaporative Family EADXR0130D61 . Please contact myself or Bill Rodgers with any questions.

Regards,

Michael Giles

Certification Engineer – EEO

VW Group of America

(248) 754-4229

To: Peavyhouse, Robert[Peavyhouse.Robert@epa.gov]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]; Good, David[good.david@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]; Harris, Dale (EEO)[Dale.Harris@vw.com]; Ross Gatzke[Ross.Gatzke@porsche.us]
From: Thomas, Richard (EEO)
Sent: Mon 11/25/2013 10:12:26 PM
Subject: RE: 2013 Volkswagen Group Final CAFE and Starter Data File

If your message was for me, then please go ahead and give me the starter file without the footprint info. I have to enter the carline footprints after I verify the numbers for which we have done for 2014, but have not done yet for 2013.

Thanks,

Richard

From: Peavyhouse, Robert [mailto:Peavyhouse.Robert@epa.gov]
Sent: Monday, November 25, 2013 4:37 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim; Good, David; Kata, Leonard (EEO); Harris, Dale (EEO); Ross Gatzke
Subject: RE: 2013 Volkswagen Group Final CAFE and Starter Data File

Jim,

I almost have the programming done to automatically generate your CAFE XML file. However, it is not finding any footprint entries for any of your 2013 carlines.

Do you want to:

1) You enter them into Verify before I go any farther so that I can automatically include all of them in your CAFE starter files, or

2) I can go ahead and generate the CAFE files and just enter a single footprint index for each carline included with a default footprint index value of 1?

Robert Peavyhouse

Compliance Division
U.S. EPA - OTAQ
Phone: (734) 214-4814

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Wednesday, November 20, 2013 8:12 AM
To: Peavyhouse, Robert
Cc: Snyder, Jim; Good, David; Kata, Leonard (EEO); Harris, Dale (EEO); Ross Gatzke
Subject: 2013 Volkswagen Group Final CAFE and Starter Data File

Hello Bob;

I would like to get a jump start of the 2013 Final CAFE for the Volkswagen Group and I am requesting that you send me the files you normally send me with the brand model type label indexes that I can modify for the CAFE work. The 2013 Volkswagen Group CAFE will include the brands of Volkswagen, Audi, Bentley, Lamborghini, Bugatti and Porsche.

The import passenger car category CAFE includes the brands of Volkswagen, Audi, Bentley, Lamborghini, Bugatti and Porsche. There is only one domestic passenger car category CAFE and that includes the Volkswagen Passat from Chattanooga, label indexes 062, 063, 064, 082 and 083. If you wanted to include both import and domestic passenger cars in one file that would also be okay for me to start my work. The truck category would include the brands of Volkswagen, Audi and Porsche.

Porsche will not be part of the Volkswagen Group and the EPA GHG reporting until model year 2014.

If you have any questions, please let me know.

Thanks and best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: balsip@suz.com[balsip@suz.com];
Darin_Johnson@AHM.Honda.com[Darin_Johnson@AHM.Honda.com];
deborah.a.zielesch@gm.com[deborah.a.zielesch@gm.com];
drobertson@mazdausa.com[drobertson@mazdausa.com]; elarue1@ford.com[elarue1@ford.com]; ferrari-adam-rowley[ferrari-adam-rowley]; gambrozaitis@autoalliance.org[gambrozaitis@autoalliance.org];
gbuffali@volvocars.com[gbuffali@volvocars.com]; jcabaniss@aiam.org[jcabaniss@aiam.org];
jyarrow@astonmartin.com[jyarrow@astonmartin.com]; KhanF@NRD.NISSAN-USA.COM[KhanF@NRD.NISSAN-USA.COM]; lotus-ian-cawdron-primary contact[lotus-ian-cawdron-primary contact]; McLaren-ian-bacon[McLaren-ian-bacon];
peter_meier@ahm.honda.com[peter_meier@ahm.honda.com];
plennvi@volvocars.com[plennvi@volvocars.com]; r.maxwell@email.sae.org[r.maxwell@email.sae.org];
rbabcock@hatci.com[rbabcock@hatci.com]; remaxwell@comcast.net[remaxwell@comcast.net];
richard.thomas@vw.com[richard.thomas@vw.com]; rseal3@jaguar.com[rseal3@jaguar.com]; spyker-g-verheul[spyker-g-verheul]; thomas.hofmann@bmwna.com[thomas.hofmann@bmwna.com];
tony.dambrosi@tema.toyota.com[tony.dambrosi@tema.toyota.com];
vvarjabe@jaguar.com[vvarjabe@jaguar.com]; vw-christoph-kohnen-doctor[vw-christoph-kohnen-doctor];
wlewis@porschecars.com[wlewis@porschecars.com];
jjacoby@azuredynamics.com[jjacoby@azuredynamics.com];
Andrea.Antholzner@bmwna.com[Andrea.Antholzner@bmwna.com];
asw9@chrysler.com[asw9@chrysler.com]; j.foor@chrysler.com[j.foor@chrysler.com];
mrobinson@codaautomotive.com[mrobinson@codaautomotive.com];
bstott@ferrariusa.com[bstott@ferrariusa.com]; ccingi@ferrari.it[ccingi@ferrari.it];
gvsm@worldnet.att.net[gvsm@worldnet.att.net]; cbanciu@ford.com[cbanciu@ford.com];
gheiser@ford.com[gheiser@ford.com]; jcusuman@ford.com[jcusuman@ford.com];
doug.devries@gm.com[doug.devries@gm.com]; laura.l.parker@gm.com[laura.l.parker@gm.com];
dbarker@hatci.com[dbarker@hatci.com]; ddoku@maseratiusa.com[ddoku@maseratiusa.com];
nokawa@mazdausa.com[nokawa@mazdausa.com];
andreas.roessler@daimler.com[andreas.roessler@daimler.com];
starcooperation.walch@daimler.com[starcooperation.walch@daimler.com];
markus.loesch@daimler.com[markus.loesch@daimler.com];
ole.hansen@daimler.com[ole.hansen@daimler.com]; dennis.pawlak@na.mitsubishi-motors.com[dennis.pawlak@na.mitsubishi-motors.com]; john.gantchar@na.mitsubishi-motors.com[john.gantchar@na.mitsubishi-motors.com]; yamaday@ntcna.nissan-usa.com[yamaday@ntcna.nissan-usa.com]; ross.gatzke@porsche.us[ross.gatzke@porsche.us];
David.Henry@roush.com[David.Henry@roush.com];
rocco.bellino@roush.com[rocco.bellino@roush.com]; lewisd@srd.subaru-fhi.co.jp[lewisd@srd.subaru-fhi.co.jp]; shinoharah@srd.subaru-fhi.co.jp[shinoharah@srd.subaru-fhi.co.jp];
luis.hernandez@suz.com[luis.hernandez@suz.com]; james@teslamotors.com[james@teslamotors.com];
kiriri@nano.tec.toyota.co.jp[kiriri@nano.tec.toyota.co.jp];
matthew.kevnick@tema.toyota.com[matthew.kevnick@tema.toyota.com];
mhandley@vpgautos.com[mhandley@vpgautos.com]
Cc: French, Roberts[french.roberts@epa.gov]
From: Good, David
Sent: Tue 11/26/2013 9:00:30 PM
Subject: EPA Guidance Letter CD-13-14 - typo in Section 1 of Enclosure 1 (fuel costs)

To manufacturers FE Label representatives,

There is a typo in the EPA guidance letter CD-13-14 on Section 1 of Enclosure 1---(which I have had questions from several manufacturers about).

The first sentence should read “The annual fuel cost estimates used on the fuel economy labels of 2015 model year vehicles…….” (not 2014 model year vehicles).

In other words, the fuel costs provided in CD-13-14 are the 2015 fuel costs to be used on FE Labels for 2015MY vehicles.

The 2014 fuel costs (used on FE labels of 2014MY vehicles) are outlined in CD-12-18, Nov 16, 2012 and remain unchanged.

Enclosure 1, section 2 of the new guidance letter (CD-13-14)does provide updated range values for each vehicle class---which should be used on both 2014MY and 2015MY labels.

Please feel free to call me at 734-214-4450 if you have any questions.

And on another note, happy Thanksgiving to all.

Dave

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
Cc: Snyder, Jim[Snyder.Jim@epa.gov]
From: Peavyhouse, Robert
Sent: Tue 11/26/2013 9:20:08 PM
Subject: RE: 2013 Volkswagen Group Final CAFE and Starter Data File
VWX_PLSQL_Created_2013_CAFE_PV.xml
VWX_PLSQL_Created_2013_CAFE_LT.xml

Richard,

Here are the two 2013 CAFE/GHG starter files. They contain VWX, ADX, BEX, BGT, NLX, and PRX model types.

There were 148 model types total; 129 in the passenger vehicle XML file and 19 in the truck XML file.

There were a total of 81 carlines spread between the 2 files. No footprint data was found so I created a default footprint with index of 1 for each carline.

I split the model types based on the value of the Gas Guzzler exempt field.

All "N" for "Not Exempt" went into the passenger vehicle file, and all "T" for "Truck" went into the truck.

I set the status of the domestic and Import flag based on the same status in the carline records.

It looks like they split just like you mentioned in the original email.

Neither file contains any CBI. No projected or final sales of any type were included at any level.

I imported them into the front-end screens just to make sure they would import without any errors and they seem to work fine.

If you find any problems let me know.

Robert Peavyhouse
Compliance Division
U.S. EPA - OTAQ
Phone: (734) 214-4814

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Monday, November 25, 2013 5:12 PM
To: Peavyhouse, Robert
Cc: Snyder, Jim; Good, David; Kata, Leonard (EEO); Harris, Dale (EEO); Ross Gatzke
Subject: RE: 2013 Volkswagen Group Final CAFE and Starter Data File

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Thanks,

Richard

From: Peavyhouse, Robert [mailto:Peavyhouse.Robert@epa.gov]
Sent: Monday, November 25, 2013 4:37 PM
To: Thomas, Richard (EEO)
Cc: Snyder, Jim; Good, David; Kata, Leonard (EEO); Harris, Dale (EEO); Ross Gatzke
Subject: RE: 2013 Volkswagen Group Final CAFE and Starter Data File

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Robert Peavyhouse
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U.S. EPA - OTAQ
Phone: (734) 214-4814

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Sent: Wednesday, November 20, 2013 8:12 AM
To: Peavyhouse, Robert
Cc: Snyder, Jim; Good, David; Kata, Leonard (EEO); Harris, Dale (EEO); Ross Gatzke
Subject: 2013 Volkswagen Group Final CAFE and Starter Data File

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Porsche will not be part of the Volkswagen Group and the EPA GHG reporting until model year 2014.

If you have any questions, please let me know.

Thanks and best regards,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 11/27/2013 4:27:24 PM
Subject: VW Group 2015 Confirmatory Test Decision Information

Hello Jim,

We have uploaded exhaust certification test data for the upcoming 2015 test group FVGA02.0APA representing the following test vehicles and models:

Test Vehicle ID/Models represented:

FAPA-AAQ-0 Audi A3 Cabriolet 2.0L quattro (worst case EDV)

FAPA-AAQ-1 Audi A3 Sedan 2.0L quattro

FAPA-AAF-0 Audi A3 Cabriolet 1.8L front drive

FAPA-AAF-1 Audi A3 Sedan 1.8L front drive

FAPA-GAF-0 GTI 2.0L auto

FAPA-GMF-0 GTI 2.0L manual

Please let us know your test decisions at your earliest convenience.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Giles, Michael (EEO)
Sent: Tue 12/3/2013 2:50:31 PM
Subject: VW Group - MY 2014 1.8L Beetle Decision Information

Hello Jim,

We have submitted tests and Decision Information for the vehicles and configurations shown below. To summarize, these are 1.8L Beetle and Beetle Convertibles, in Federal and PZEV test groups. Note, these vehicles are FEDV only (FTP / Hwy only for labeling purposes) and were already included in the certification. Therefore, no running changes are needed. Most tests were flagged for confirmatory test due to high FE.

Please advise of decisions at your earliest convenience.

Test Group	Veh ID / Configuration	Model
Transmission	**High FE**	**Actual Model**
EVWXV02.03PA	VW411-4-0167 / 1	Beetle Convertible
SA	(FTP / Hwy)	Passat
EVWXV02.03PA	VW411-4-0167 / 1	Beetle Coupe
SA	(FTP / Hwy)	Passat
EVWXV02.03PA	VW324-4-0049 / 0	Beetle Coupe
M	(Hwy)	Beetle
EVWXV02.0B5F	VW361-4-0182 / 1	Beetle Coupe
SA	(FTP / Hwy)	Jetta
EVWXV02.0B5F	VW361-4-0182 / 2	Beetle Convertible
SA	(FTP / Hwy)	Jetta
EVWXV02.0B5F	VW324-4-0050 / 0	Beetle Coupe

M (Hwy) Beetle

Regards,

Mike

Michael Giles

Certification Engineer – EEO

VW Group of America

(248) 754-4229

To: Ball, Joel[ball.joel@epa.gov]; Ex. 7 @arb.ca.gov[Ex. 7 @arb.ca.gov]
Cc: Johnson, Stuart (EEO)[Stuart.Johnson@vw.com]
From: Glas, Tobias
Sent: Tue 12/3/2013 3:35:47 PM
Subject: Volkswagen IUVP programm

Dear gentleman,

the Volkswagen IUVP program for Ex. 4 - CBI is almost finished.

We are testing the last 2 missing cars for the Ex. 4 - CBI program in the next days.

For the Ex. 4 - CBI program we are procuring the last 2 cars right now. There was some delay because we had to wait until the cars have the required mileage.

Depending on when we will get the cars from the customer we will test them before Christmas or right at the beginning of next year.

I will sent you an Email when the program is finished.

Best regards

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Tue 12/3/2013 3:48:47 PM
Subject: 2015 models for TG FVGAV02.0APA

Jim,

This is the Section 12 for the 2015 tests I sumitted. It might help understand the model mix represented by the tests submitted.

Model	Carline	Engine Code	Transmission Code	SIL	Curb Wgt. [lbs]	ETW [lbs]	Fuel Tank Capacity [l]	Canister Working Capacity [g]	Tire Size
Audi A3 quattro	A3 quattro	CNTC	DQ250-6A	n.a.	3385	3625	55	110	225/45 R17 225/40 R18
Audi A3 Cabriolet quattro	A3 Cabriolet quattro	CNTC	DQ250-6A	n.a.	3594	3875	55	110	
Audi A3	A3	CNSB	DQ250-6F	n.a.	3197	3500	50	110	
A3 Cabriolet	A3 Cabriolet	CNSB	DQ250-6F	n.a.	3396	3750	50	110	
VW GTI	GTI	CNTA	DQ250-6F	n.a.	3191	3500	50	110	
VW GTI	GTI	CNTA	MQ350-6F	n.a.	3122	3375	50	110	

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william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Tue 12/3/2013 4:20:41 PM
Subject: RE: 2015 models for TG FVGAV02.0APA

Sorry, It might help if I provided the engine information referenced in my previous email.

Regards, Bill

Model	Engine Code	Cat Code		Com-pression ratio	Idle [rpm]	HP @ RPM	Torque [lbs.ft.] @ RPM
		Pre-Cat.	Main-Cat.				
A3, A3 Cabriolet	CNSB	Umicore	Umicore	9.6 :1	700 ± 50	170 @ 4500-6200	270 @ 1500-4400
VW GTI	CNTA	Umicore	Umicore	9.6 :1	700 ± 50	211 @ 4300-6200	350 @ 1600-4200
A3 quattro, A3 Cabriolet quattro	CNTC	Umicore	Umicore	9.6 :1	700 ± 50	220 @ 4500-6200	350 @ 1600-4400

From: Rodgers, William (EEO)
Sent: Tuesday, December 03, 2013 10:49 AM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Subject: 2015 models for TG FVGAV02.0APA

Jim,

This is the Section 12 for the 2015 tests I sumitted. It might help understand the model mix represented by the tests submitted.

Model	Carline	Engine Code	Transmission Code	SIL	Curb Wgt. [lbs]	ETW [lbs]	Fuel Tank Capacity [l]	Canister Working Capacity [g]	Tire Size
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Audi A3	A3 Cabriolet	CNTC	DQ250-6A	n.a.	3594	3875	55	110	

Cabriolet quattro	quattro							
Audi A3	A3	CNSB	DQ250-6F	n.a.	3197	3500	50	110
A3 Cabriolet	A3 Cabriolet	CNSB	DQ250-6F	n.a.	3396	3750	50	110
VW GTI	GTI	CNTA	DQ250-6F	n.a.	3191	3500	50	110
VW GTI	GTI	CNTA	MQ350-6F	n.a.	3122	3375	50	110

Bill Rodgers

Emissions Certification Engineer

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Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Wed 12/4/2013 12:48:35 PM
Subject: Audi Test Waivers

Hi Jim,

We received your test waivers and (1.8L) selection concerning the Audi A3. However we haven't received a decision on the A3 2.0L Quattro, VID: FAPA-AAQ/1. I believe you mentioned yesterday that you were waiving the 2.0L configurations but I'm not sure.

Thanks,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Wed 12/4/2013 3:26:31 PM
Subject: RE: Supplemental Information submitted

When will it be available for test?

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, December 04, 2013 10:08 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory
Subject: Supplemental Information submitted

Hello Jim,

Just FYI, I submitted the supplemental information for the Ex. 4 - CBI

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Rodgers, William (EEO)
Sent: Wed 12/4/2013 3:34:37 PM
Subject: RE: Supplemental Information submitted

Jan. 27th 2014 is the date given for delivery to EPA.

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Wednesday, December 04, 2013 10:27 AM
To: Rodgers, William (EEO)
Subject: RE: Supplemental Information submitted

When will it be available for test?

From: Rodgers, William (EEO) [mailto:William.Rodgers@vw.com]
Sent: Wednesday, December 04, 2013 10:08 AM
To: Snyder, Jim
Cc: Giles, Michael (EEO); Allen, Gregory
Subject: Supplemental Information submitted

Hello Jim,

Just FYI, I submitted the supplemental information for the Audi A3 test vehicle FAPA-AAF/1.

Regards,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Allen, Gregory
Sent: Thur 12/5/2013 1:34:42 PM
Subject: 2015 Durability Plan Uploaded to Verify

Hello Jim,

Hope all is well.

Just an fyi – the Volkswagen Group of America request for carryover approval of Durability Procedures for the 2015 model year was uploaded to the Verify system under the new VGA manufacturer code.

If you have any questions please let me know.

Thank you.

Best Regards / Mit freundlichen Grüßen,

Greg Allen

Emissions Certification Engineering Analyst

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

U.S.A.

Phone: (248) 754-4209

E-mail: Gregory.Allen@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Harris, Dale (EEO)
Sent: Thur 12/5/2013 2:45:33 PM
Subject: MY 2015 Pre-Model Year GHG Report
CBI_FVGAV_COMMON_CR1A_CAR_R01.pdf

Jim

Attached is a copy of the recently submitted MY2015 Pre-Model GHG Report for review. Please contact me directly if there are any questions. Thanks!!!

Regards,

Dale Harris

Certification Specialist

VOLKSWAGEN Group of America, Inc.

Engineering and Environmental Office (EEO)
3800 Hamlin

AuburnHills Michigan 48326

United States of America

P: +1 248 754-4218

E: Dale.Harris@vw.com

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Kata, Leonard (EEO)
Sent: Thur 12/5/2013 10:58:08 PM
Subject: RE:

Hello Jim:

Thanks for the update. I am not in the office tomorrow; However, is there a day next week that works for you for a pre-cert meeting? I recall that your availability in December may be limited.

Best Regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, December 05, 2013 5:49 PM
To: Giles, Michael (EEO)
Cc: Rodgers, William (EEO); Kata, Leonard (EEO)
Subject:

Mike, Len, I now have the GHG pre-cert report, the Pre-cert mtg handout and the Request for ADP approval letter. I think that is sufficient to allow me to review a few early 2015 certificates. I'll review the ADP approval request next week.

I still want to have a Pre-Cert mtg with Len. We have them with all the manufacturers and they are very useful .

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Thur 12/5/2013 11:13:43 PM
Subject: RE:

There are several other pre-cert mtgs next week. Monday is booked. I think Tue, wed and thurs afternoons are open. Do you expect to submit many cert requests this month? If not, we can hold off to after the holiday if we have trouble setting a time.

Jim Snyder
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(734) 214-4946
snyder.jim@epa.gov

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Thursday, December 05, 2013 5:58 PM
To: Snyder, Jim
Cc: Rodgers, William (EEO); Giles, Michael (EEO)
Subject: RE:

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Sent: Thursday, December 05, 2013 5:49 PM
To: Giles, Michael (EEO)
Cc: Rodgers, William (EEO); Kata, Leonard (EEO)
Subject:

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snyder.jim@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Rodgers, William (EEO)[William.Rodgers@vw.com]; Giles, Michael (EEO)[michael.giles@vw.com]
From: Kata, Leonard (EEO)
Sent: Thur 12/5/2013 11:37:07 PM
Subject: RE:

Hi Jim:

I will be in contact with the office in the morning and will check on the cert request question.

Best regards,

Len

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, December 05, 2013 6:14 PM
To: Kata, Leonard (EEO)
Cc: Rodgers, William (EEO); Giles, Michael (EEO)
Subject: RE:

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(734) 214-4946
snyder.jim@epa.gov

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Thursday, December 05, 2013 5:58 PM
To: Snyder, Jim
Cc: Rodgers, William (EEO); Giles, Michael (EEO)
Subject: RE:

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To: Giles, Michael (EEO)
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snyder.jim@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Rodgers, William (EEO)
Sent: Fri 12/6/2013 2:28:11 PM
Subject: RE: Cert Requests

Hello Jim,

We have two 2015 Applications already submitted and Certification Requests which are planned for submission today. One is strictly carryover for the Audi TT/TTS (TG: FVGAV02.0AUA) beginning production in week two of January, while the other will be a conditional request related to the new Audi A3 and GTI (TG: FVGAV02.0APA) which currently requires EPA and Manufacturer confirmatory tests. I will attempt to make these submissions this morning if Verify accepts them. Please let us know if there is an issue with reviewing these requests.

Thanks,

Bill Rodgers

Emissions Certification Engineer

VOLKSWAGEN GROUP OF AMERICA, INC.

Engineering and Environmental Office

Auburn Hills, MI

(248) 754-4219

william.rodgers@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, December 05, 2013 6:14 PM

To: Kata, Leonard (EEO)
Cc: Rodgers, William (EEO); Giles, Michael (EEO)
Subject: RE:

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(734) 214-4946
snyder.jim@epa.gov

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Thursday, December 05, 2013 5:58 PM
To: Snyder, Jim
Cc: Rodgers, William (EEO); Giles, Michael (EEO)
Subject: RE:

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Senior Manager

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E-Mail: leonard.kata@vw.com

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Sent: Thursday, December 05, 2013 5:49 PM
To: Giles, Michael (EEO)
Cc: Rodgers, William (EEO); Kata, Leonard (EEO)
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snyder.jim@epa.gov

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Giles, Michael (EEO)[michael.giles@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Rodgers, William (EEO)
Sent: Fri 12/6/2013 4:48:49 PM
Subject: VW Group Certificate Requests

Hello Jim,

We have submitted certification requests to Verify for the following 2015 test groups, as previously mentioned:

FVGAV02.0APA – Bin 2, 1.8L/2.0L Audi A3 models and VW GTI 2.0L;

FVGAV02.0AUA – Bin 5, Audi TT/TTS models.

Please let us know if you have any questions or concerns regarding these requests.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: richard.thomas@vw.com[richard.thomas@vw.com]
Cc: leonard.kata@vw.com[leonard.kata@vw.com]
From: Good, David
Sent: Mon 12/9/2013 8:50:10 PM
Subject: Re: 2012 CAFE/GHG Report - please set mfr final status to "yes" and double check the address file for EPA's CAFE/GHG letter
2012 VW Group Truck CAFE-GHG report from Verify-12-9-2013.pdf
2012 VW Group Car CAFE-GHG report from Verify-12-9-2013.pdf

Richard,

Re: 2012 CAFE/GHG Report - please set mfr final status to "yes" and double check the address file for EPA's CAFE/GHG letter

I'm working on 2012 CAFE/GHG reports. Our management indicates that I have to send out EPA final 2012 CAFE/GHG letters before Dec 20, 2013.

When you get a chance, please sent the Mfr Final Status to "yes" for both your car and truck CAFE/GHG reports. Attached are the latest Verify CAFE/GHG car & truck reports for your convenience.

While you are setting the status, please double check that the correct name and contact information appears in the address file for the CAFE/GHG letter. It will be in a field (pull-down menu) when you update the mfr final CAFE/GHG status (for each car or truck CAFE/GHG compliance category). If the correct name and contact information doesn't appear in the pull down menu, then you will have to enter it (or correct it) in the "Maintain Manufacturer Information" module (CAFE Address file) of Verify. Normally, the EPA CAFE/GHG letter should be addressed to the person who sent EPA the 2012 CAFE & GHG model year report(s) on March 31, 2013 or so.

Thanks

To: Good, David[good.david@epa.gov]
Cc: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Tue 12/10/2013 1:50:23 PM
Subject: RE: 2012 CAFE/GHG Report - please set mfr final status to "yes" and double check the address file for EPA's CAFE/GHG letter

Hi Dave;

I have taken care of this and both categories were set to final status yes. Oliver Schmidt is the contact name and he was also selected with this submittal.

If you have any questions, please let me know.

Best regards,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Monday, December 09, 2013 3:50 PM
To: Thomas, Richard (EEO)
Cc: Kata, Leonard (EEO)
Subject: Re: 2012 CAFE/GHG Report - please set mfr final status to "yes" and double check the address file for EPA's CAFE/GHG letter

Richard,

Re: 2012 CAFE/GHG Report - please set mfr final status to "yes" and double check the address file for EPA's CAFE/GHG letter

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Thanks

To: Snyder, Jim[Snyder.Jim@epa.gov]
Cc: Good, David[good.david@epa.gov]; Wehrly, Linc[wehrly.linc@epa.gov]; Olechiw, Michael[olechiw.michael@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]; Rodgers, William (EEO)[William.Rodgers@vw.com]; Allen, Gregory[Gregory.Allen@vw.com]
From: Giles, Michael (EEO)
Sent: Thur 12/12/2013 7:44:43 PM
Subject: VW Group - Request for Approval Lev III / Tier 2 Label

Hello Jim,

Today we uploaded (to VERIFY, Mfr. account VGA) a "Request for Approval" document, for MY 2015 light duty diesel Test Group FVGA02.0VAL. This test group will be certified to LEV III standards.

The document name was: CBI_FVGAV02.0VAL_RFA_LAB_R00.pdf

The request is for approval of two related topics within this test group:

- Approval of the label content as shown in the example included in the document
- Confirm our understanding of useful life certification requirements (see letter for details).

Because this information is needed to support production, we would appreciate any support you can provide to obtain a quick response to this request.

Please call me if you have any questions.

Regards,

Mike

Michael Giles

Certification Engineer – EEO

VW Group of America

(248) 754-4229

Includes Personal Email Addresses, ex 6

Includes Personal Email Addresses, ex 6

Long List Includes Personal Email Addresses, ex 6

Long List Includes Personal Email Addresses, ex 6

From: Giedrius Ambrozaitis
Sent: Thur 12/12/2013 8:36:35 PM
Subject: SCR Stakeholder Group -- Special ISO Comment Meeting January 7
SCR Stakeholder Mtg Agenda January 7, 2014.doc
SCR Stakeholder group email list - October 2013.xls

This is a notice for a special meeting of the SCR Stakeholder Group to collect and condense comments to ISO on changes to Parts 1, 2 and 3 of ISO Standard 22241.

The meeting will be held on January 7 2014 at 12:00 noon eastern at the American Petroleum Institute (API) offices in Washington DC (1220 L Street, NW, Washington, DC 20005-4070). An agenda is attached.

The conference call number will be 1-866-443-0059 with code 2026828233# .

The US representative to ISO is Zafar Shaikh, the head of SAE (Society of Automotive Engineers) Exhaust Aftertreatment and Emissions Committee (and also a powertrain manager at Ford). Zafar has requested that any and all recommended changes to Parts 1, 2 and 3 of ISO 22241 be submitted to him by January 15th. He further strongly recommends that any recommendations for changes to the current standards be substantiated with data and reasoning to support them.

The API Task Force will be meeting on December 20th to discuss changes. These changes will be brought forward into the January 7 SCR Stakeholder Group meeting and onto Zafar Shaikh and ISO.

If you or your company has recommendations for changes, please be sure to bring those changes with substantiation to either of these upcoming meetings.

A meeting date for the next regular meeting of the SCR Stakeholder Group meeting will be circulated shortly.

= = = =

Agenda
Special SCR Stakeholder Group Meeting
January 7, 2014

Location:
American Petroleum Institute
1220 L Street, NW Washington, DC 20005-4070

Conference call number (for all meetings):
1-866-443-0059 with code 2026828233#

Agenda

Lunch - 11:30 am Eastern

Special SCR Stakeholder Group Meeting (12:00 pm - 3:00 pm)

1. **Introduction/Roll Call/Antitrust**	Harmening/Ferrick/Ambrozaitis	1 min
2. Recommended changes to Parts 1, 2 and 3 of ISO 22241 **- Changes from Dec 20 API Task Force meeting** **- Other new changes** **- Collate changes in to document for Zafar Shaikh SAE for ISO** **- Next steps**	Harmening/Thomas	3 hours

To: Giles, Michael (EEO)[michael.giles@vw.com]
From: Snyder, Jim
Sent: Thur 12/12/2013 10:22:26 PM
Subject: RE: VW Group - Request for Approval Lev III / Tier 2 Label

Mike, Thanks for the heads up. I believe Len and I talked about this before so its not new to me. I'm off Friday so I will look it over on Monday.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Thursday, December 12, 2013 2:45 PM
To: Snyder, Jim
Cc: Good, David; Wehrly, Linc; Olechiw, Michael; Kata, Leonard (EEO); Rodgers, William (EEO); Allen, Gregory
Subject: VW Group - Request for Approval Lev III / Tier 2 Label

Hello Jim,

Today we uploaded (to VERIFY, Mfr. account VGA) a "Request for Approval" document, for MY 2015 light duty diesel Test Group **Ex. 4 - CBI** **Ex. 4 - CBI**

The document name was: **Ex. 4 - CBI**

The request is for approval of two related topics within this test group:

- Approval of the label content as shown in the example included in the document
- Confirm our understanding of useful life certification requirements (see letter for details).

Because this information is needed to support production, we would appreciate any support you can provide to obtain a quick response to this request.

Please call me if you have any questions.

Regards,

Mike

Michael Giles

Certification Engineer – EEO

VW Group of America

(248) 754-4229

To: Glas, Tobias[Tobias.Glas@vw.com]
From: Sohacki, Lynn
Sent: Mon 12/16/2013 2:39:51 PM
Subject: RE: Question about VW CC Class S146, test group BADXV02.03UA

Thank you, Tobias. That will be fine.

Happy Holidays and Ex. 6

Lynn

From: Glas, Tobias [mailto:Tobias.Glas@vw.com]
Sent: Saturday, December 14, 2013 11:17 AM
To: Sohacki, Lynn
Subject: RE: Question about VW CC Class S146, test group BADXV02.03UA

Hi Lynn!

Ex. 6

Of the top of my head I don't remember any campaigns that are emission related, but I'd like to double check when I'm back in the office in January.

I hope that is ok with you.

Happy holidays!!

Tobias Glas

In-Use Emission Compliance Specialist

Engineering & Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211

Cell: (248) 494-1537

Fax: (248) 754-4207

E-Mail: Tobias.Glas@vw.com

From: Sohacki, Lynn [mailto:sohacki.lynn@epa.gov]
Sent: Thursday, December 12, 2013 3:58 PM
To: Glas, Tobias
Subject: Question about VW CC Class S146, test group BADXV02.03UA

Hi, Tobias.

We are planning to start recruiting vehicles for this class even though it has been a long time since I sent the notification letter. One potential vehicle has had a computer reflash or update. I looked though the defect reports to see if there were any recalls or service actions on this test group for emissions purposes but couldn't locate anything. Have there been any emissions-related service campaigns for this test group?

Thanks in advance for your response.

Lynn Sohacki

Compliance Division

Environmental Protection Agency

734-214-4851

734-214-4869 fax

To: Giles, Michael (EEO)[michael.giles@vw.com]
Cc: Allen, Gregory[Gregory.Allen@vw.com]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]; Thomas, Richard (EEO)[Richard.Thomas@vw.com]; Rodgers, William (EEO)[William.Rodgers@vw.com]
From: Snyder, Jim
Sent: Mon 12/16/2013 7:21:00 PM
Subject: RE: VW Group Certificate Requests

Mike, While I still have 2 other cert requests ahead of the 2 VW to finish reviewing, I have reviewed the request for durability carry-over and gave VW's 2 requests a quick scan. I didn't see any issues. I plan to complete everything before my last day, Thursday.

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Monday, December 16, 2013 9:45 AM
To: Snyder, Jim
Cc: Allen, Gregory; Kata, Leonard (EEO); Thomas, Richard (EEO); Rodgers, William (EEO)
Subject: RE: VW Group Certificate Requests

Hi Jim,

I just left a voicemail to follow up on the two test groups below. Please let us know status of these or if you need anything from us to proceed.

Thanks,

Mike

From: Rodgers, William (EEO)
Sent: Friday, December 06, 2013 11:49 AM
To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Cc: Giles, Michael (EEO); Allen, Gregory; Kata, Leonard (EEO)
Subject: VW Group Certificate Requests

Hello Jim,

We have submitted certification requests to Verify for the following 2015 test groups, as previously mentioned:

Ex. 4 - CBI

Please let us know if you have any questions or concerns regarding these requests.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Giles, Michael (EEO)
Sent: Mon 12/16/2013 7:25:53 PM
Subject: RE: VW Group Certificate Requests

Thanks for the update.

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Monday, December 16, 2013 2:21 PM
To: Giles, Michael (EEO)
Cc: Allen, Gregory; Kata, Leonard (EEO); Thomas, Richard (EEO); Rodgers, William (EEO)
Subject: RE: VW Group Certificate Requests

Mike, While I still have 2 other cert requests ahead of the 2 VW to finish reviewing, I have reviewed the request for durability carry-over and gave VW's 2 requests a quick scan. I didn't see any issues. I plan to complete everything before my last day, Thursday.

From: Giles, Michael (EEO) [mailto:michael.giles@vw.com]
Sent: Monday, December 16, 2013 9:45 AM
To: Snyder, Jim
Cc: Allen, Gregory; Kata, Leonard (EEO); Thomas, Richard (EEO); Rodgers, William (EEO)
Subject: RE: VW Group Certificate Requests

Hi Jim,

I just left a voicemail to follow up on the two test groups below. Please let us know status of these or if you need anything from us to proceed.

Thanks,

Mike

From: Rodgers, William (EEO)
Sent: Friday, December 06, 2013 11:49 AM

To: "Jim Snyder' (Snyder.Jim@epamail.epa.gov)'
Cc: Giles, Michael (EEO); Allen, Gregory; Kata, Leonard (EEO)
Subject: VW Group Certificate Requests

Hello Jim,

We have submitted certification requests to Verify for the following 2015 test groups, as previously mentioned:

FVGAV02.0APA – Bin 2, 1.8L/2.0L Audi A3 models and VW GTI 2.0L;

FVGAV02.0AUA – Bin 5, Audi TT/TTS models.

Please let us know if you have any questions or concerns regarding these requests.

Regards,

Bill Rodgers

VWGoA EEO

(248) 754-4219

To: Snyder, Jim[Snyder.Jim@epa.gov]
From: Kata, Leonard (EEO)
Sent: Tue 12/17/2013 4:38:25 PM
Subject: Certification Preview Meeting

Hi Jim:

As you know, we have submitted some cert requests and I see that you are looking over the information. In light of the workload, I imagine that we may have to wait until after the holiday for a certification preview meeting, (unless you think it can fit in yet this week). Please let me know what you think. If it is after the holiday, when is the soonest available date. We should be back in full swing beginning Jan.6, 2014.

Regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, December 05, 2013 6:14 PM
To: Kata, Leonard (EEO)
Cc: Rodgers, William (EEO); Giles, Michael (EEO)
Subject: RE:

There are several other pre-cert mtgs next week. Monday is booked. I think Tue, wed and thurs afternoons are open. Do you expect to submit many cert requests this month? If not, we can hold off to after the holiday if we have trouble setting a time.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Thursday, December 05, 2013 5:58 PM
To: Snyder, Jim
Cc: Rodgers, William (EEO); Giles, Michael (EEO)
Subject: RE:

Hello Jim:

Thanks for the update. I am not in the office tomorrow; However, is there a day next week that works for you for a pre-cert meeting? I recall that your availability in December may be limited.

Best Regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, December 05, 2013 5:49 PM
To: Giles, Michael (EEO)
Cc: Rodgers, William (EEO); Kata, Leonard (EEO)
Subject:

Mike, Len, I now have the GHG pre-cert report, the Pre-cert mtg handout and the Request for ADP approval letter. I think that is sufficient to allow me to review a few early 2015 certificates. I'll review the ADP approval request next week.

I still want to have a Pre-Cert mtg with Len. We have them with all the manufacturers and they are very useful .

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Snyder, Jim
Sent: Tue 12/17/2013 7:53:13 PM
Subject: RE: Certification Preview Meeting

Hi Len, yes the calendar is pretty tight this week. I'd rather spend my time reviewing CoCs. Let's plan on having the mtg, after the 6th. Things are pretty open on the schedule. Do you have a preference? I would say let's wait until at least the 9th to catch up after the break.

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Tuesday, December 17, 2013 11:38 AM
To: Snyder, Jim
Subject: Certification Preview Meeting
Importance: High

Hi Jim:

As you know, we have submitted some cert requests and I see that you are looking over the information. In light of the workload, I imagine that we may have to wait until after the holiday for a certification preview meeting, (unless you think it can fit in yet this week). Please let me know what you think. If it is after the holiday, when is the soonest available date. We should be back in full swing beginning Jan.6, 2014.

Regards,

Len

Leonard W. Kata

Senior Manager

Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, December 05, 2013 6:14 PM
To: Kata, Leonard (EEO)
Cc: Rodgers, William (EEO); Giles, Michael (EEO)
Subject: RE:

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Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency

(734) 214-4946
snyder.jim@epa.gov

From: Kata, Leonard (EEO) [mailto:Leonard.Kata@vw.com]
Sent: Thursday, December 05, 2013 5:58 PM
To: Snyder, Jim
Cc: Rodgers, William (EEO); Giles, Michael (EEO)
Subject: RE:

Hello Jim:

Thanks for the update. I am not in the office tomorrow; However, is there a day next week that works for you for a pre-cert meeting? I recall that your availability in December may be limited.

Best Regards,

Len

Leonard W. Kata

Senior Manager

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Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Snyder, Jim [mailto:Snyder.Jim@epa.gov]
Sent: Thursday, December 05, 2013 5:49 PM
To: Giles, Michael (EEO)
Cc: Rodgers, William (EEO); Kata, Leonard (EEO)
Subject:

Mike, Len, I now have the GHG pre-cert report, the Pre-cert mtg handout and the Request for ADP approval letter. I think that is sufficient to allow me to review a few early 2015 certificates. I'll review the ADP approval request next week.

I still want to have a Pre-Cert mtg with Len. We have them with all the manufacturers and they are very useful .

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Snyder, Jim
Sent: Tue 12/17/2013 11:19:49 PM
Subject: 2015 Durability approval
VW 2015 Durability approval.pdf

Jim Snyder
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Good, David
Sent: Wed 12/18/2013 3:13:43 PM
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNTO
VW_Group_2014 FEGuide-all rel dates-no-sales-12-17-2013.xlsx

Richard,

Here you go.

Remind me which are the new indexes----so that I can have them posted on Friday.

Dave

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Wednesday, December 18, 2013 7:17 AM
To: Good, David
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNTO

Thanks, Dave; did you send me something yesterday, or are you still unable to use your audit program by brand?

From: Good, David [mailto:good.david@epa.gov]
Sent: Tuesday, December 17, 2013 1:28 PM
To: Thomas, Richard (EEO)
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNTO

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Tuesday, December 17, 2013 1:23 PM
To: Good, David
Subject: new 2014 1.8L Beetle Label Indexes

Hi Dave;

Ex. 4 - CBI

know if anything is still not right or you see other errors or discrepancies.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Wed 12/18/2013 3:39:46 PM
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNTO

Hi Dave;

I just made one more correction to the 1.8L Beetle with M5 transmission, index #111, to correct the adjusted highway and combined CO2 values, my error.

The other two indexes #112 and #113, 1.8L Beetle and 1.8L Beetle Convertible automatics, are the other new labels that need to go to the east coast.

Thanks, and if I don't talk to you again have a nice holiday and Happy New Year!

Best regards,

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Wednesday, December 18, 2013 10:14 AM
To: Thomas, Richard (EEO)
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNTO

Richard,

Here you go.

Remind me which are the new indexes----so that I can have them posted on Friday.

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Sent: Tuesday, December 17, 2013 1:23 PM
To: Good, David
Subject: new 2014 1.8L Beetle Label Indexes

Hi Dave;

I had to correct the labels I did today to select the correct regular fuel for the annual fuel cost and

five year savings. I believe I have them all covered now, indexes 111, 112 and 113. Let me know if anything is still not right or you see other errors or discrepancies.

Thanks,

Richard

Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

To: Thomas, Richard (EEO)[Richard.Thomas@vw.com]
From: Good, David
Sent: Wed 12/18/2013 4:13:05 PM
Subject: RE: new 2014 1.8L Beetle Label Indexes [Thanks] NNTO

From: Thomas, Richard (EEO) [mailto:Richard.Thomas@vw.com]
Sent: Wednesday, December 18, 2013 10:40 AM
To: Good, David
Subject: RE: new 2014 1.8L Beetle Label Indexes [Richard, I'll run a new query and send you the data in an hour or so.] NNTO

Hi Dave;

Ex. 4 - CBI

Ex. 4 - CBI

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To: Good, David
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Ex. 4 - CBI

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Richard E. Thomas
VOLKSWAGEN Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Engineering and Environmental Office (EEO)
Phone: 248 754-4213
Fax: 248 754-4207
Richard.Thomas@VW.com

CAFE/GHG Draft Calculation Information Report

Manufacturer Name:	Volkswagen	**Manufacturer Code:**	VWX
Model Year:	2012	**Compliance Category:**	Passenger Vehicles

Calculation Summary

	CAFE Domestic		CAFE Import		GHG		GHG TLAAS	
	Mfr	**Verify**	**Mfr**	**Verify**	**Mfr**	**Verify**	**Mfr**	**Verify**
Baseline Calculation:								
Unrounded Unadjusted	33.4335	33.4335	32.9492	32.9492	273.667	273.6587	--	--
Unrounded Adjusted (TPA)	33.6676	33.6676	33.1948	33.1949	N/A	N/A	N/A	N/A
Rounded Adjusted (TPA)	33.7	33.7	33.2	33.2	274	274	--	--
Final Calculation:								
Unrounded Unadjusted	33.4335	33.4335	33.0766	33.0766	272.7599	272.7516	--	--
Unrounded Adjusted (TPA)	33.6676	33.6676	33.3231	33.3232	N/A	N/A	N/A	N/A
Rounded Adjusted (TPA)	33.7	33.7	33.3	33.3	273	273	--	--
Final Production Volume	Ex. 4 - CBI						--	--
Official Value	33.7	33.7	33.3	33.3	273	273	--	--
Unrounded Reformed Standard	32.1479	32.1479	33.674	33.6787	263.1	263.1	--	--
Rounded Reformed Standard	--	32.1	--	33.7	--	263	--	--

Calculation Method: CREE
Mfr Final Status: Yes
Reformed Standard Comment: --
CAFE/GHG Calculation Errors: --

Manufacturer Name:	Volkswagen	**Manufacturer Code:**	VWX
Model Year:	2012	**Compliance Category:**	Passenger Vehicles

Model Type CAFE Calculations

VW FOIA, EPA 06/20/2017 2017-FFP_007223

CAFE/GHG Draft Calculation Information Report

Manufacturer Name: Volkswagen
Manufacturer Code: VWX
Model Year: 2012
Compliance Category: Passenger Vehicles

							Baseline Fuel			Dual Fuel / Alt Fuel			Final Calculation		
Mfr Cd	MT Index	Dom/Imp	Div	CL	Prod.Vol.	Test.Vol.	City	Hwy	Comb	City	Hwy	Comb	City	Hwy	Comb
ADX	3	Import	2	293			27.0121	42.7212	32.368	--	--	--	27.0121	42.7212	32.368
ADX	4	Import	2	293			25.7135	41.7856	31.0956	--	--	--	25.7135	41.7856	31.0956
ADX	9	Import	1	80			31.4	46.9	36.8857	--	--	--	31.4	46.9	36.8857
ADX	10	Import	1	70			22.9	37.4	27.7396	--	--	--	22.9	37.4	27.7396
ADX	11	Import	1	75			23.1	37.5	27.9255	--	--	--	23.1	37.5	27.9255
ADX	20	Import	1	10			29.2669	42.8335	34.1316	--	--	--	29.2669	42.8335	34.1316
ADX	21	Import	1	51			29.2669	42.8335	34.1316	--	--	--	29.2669	42.8335	34.1316
ADX	29	Import	1	20			26.0806	39.7929	30.867	--	--	--	26.0806	39.7929	30.867
ADX	30	Import	1	40			26.0806	39.7929	30.867	--	--	--	26.0806	39.7929	30.867
ADX	31	Import	1	25			26.0806	39.7929	30.867	--	--	--	26.0806	39.7929	30.867
ADX	32	Import	1	53			26.0806	39.7929	30.867	--	--	--	26.0806	39.7929	30.867
ADX	33	Import	1	20			27.628	42.4302	32.7729	--	--	--	27.628	42.4302	32.7729
ADX	34	Import	1	40			27.628	42.4302	32.7729	--	--	--	27.628	42.4302	32.7729
ADX	37	Import	1	30			21.6	35	26.096	--	--	--	21.6	35	26.096
ADX	38	Import	1	56			20.3	34	24.7961	--	--	--	20.3	34	24.7961
ADX	39	Import	1	30			21.5	34.1	25.7879	--	--	--	21.5	34.1	25.7879
ADX	40	Import	1	92			15.5398	24.5419	18.612	--	--	--	15.5398	24.5419	18.612
ADX	41	Import	1	90			15.5398	24.5419	18.612	--	--	--	15.5398	24.5419	18.612
ADX	42	Import	1	92			13.7	23.5099	16.8671	--	--	--	13.7	23.5099	16.8671
ADX	43	Import	1	90			13.7	23.5099	16.8671	--	--	--	13.7	23.5099	16.8671
ADX	44	Import	2	211			29.8054	43.2753	34.6601	--	--	--	29.8054	43.2753	34.6601
ADX	56	Import	1	42			17.3	29.3	21.2088	--	--	--	17.3	29.3	21.2088
ADX	57	Import	1	42			20.4	31	24.1098	--	--	--	20.4	31	24.1098
ADX	60	Import	1	96			21.7	35.2	26.2263	--	--	--	21.7	35.2	26.2263
ADX	61	Import	1	95			21.7	35.2	26.2263	--	--	--	21.7	35.2	26.2263
ADX	62	Import	3	406			16.1	25.4	19.276	--	--	--	16.1	25.4	19.276
ADX	63	Import	3	426			16	25.4	19.197	--	--	--	16	25.4	19.197
ADX	64	Import	3	406			14	24	17.2308	--	--	--	14	24	17.2308
ADX	66	Import	1	92			16.0427	27.4569	19.7344	--	--	--	16.0427	27.4569	19.7344
ADX	67	Import	1	65			25.3	40.3	30.3902	--	--	--	25.3	40.3	30.3902
ADX	68	Import	1	65			26.6	38.2	30.8102	--	--	--	26.6	38.2	30.8102
ADX	69	Import	1	66			27.2	37.1	30.9119	--	--	--	27.2	37.1	30.9119
ADX	70	Import	1	37			28.174	41.7864	33.0135	--	--	--	28.174	41.7864	33.0135
ADX	71	Import	1	38			28.174	41.7864	33.0135	--	--	--	28.174	41.7864	33.0135
ADX	73	Import	1	90			16.0427	27.4569	19.7344	--	--	--	16.0427	27.4569	19.7344
ADX	74	Import	1	92			13.6735	24.6004	17.0893	--	--	--	13.6735	24.6004	17.0893

Ex. 4 - CBI

Manufacturer Name: Volkswagen
Manufacturer Code: VWX
Model Year: 2012
Compliance Category: Passenger Vehicles

ADX	75	Import	1	90	13.6735	24.6004	17.0893	--	--	--	13.6735	24.6004	17.0893
ADX	80	Import	1	61	21.2	34.2	25.5746	--	--	--	21.2	34.2	25.5746
ADX	83	Import	2	160	27.2963	37.1906	31.0086	--	--	--	27.2963	37.1906	31.0086
ADX	84	Import	2	160	21.7	35.8	26.3745	--	--	--	21.7	35.8	26.3745
ADX	89	Import	2	212	23.9	37.1	28.456	--	--	--	23.9	37.1	28.456
ADX	165	Import	3	426	13	22.6	16.0722	--	--	--	13	22.6	16.0722
BEX	8	Import	1	15	12.7	23.4	15.9903	--	--	--	12.7	23.4	15.9903
BEX	12	Import	1	40	13.7	24.6	17.112	9.5	17.3	11.9181	22.527	40.5507	28.1593
BEX	13	Import	1	55	13.9	24.7	17.3049	10.3	17.2	12.569	23.1199	40.6448	28.6857
BEX	14	Import	1	35	13.9	24.7	17.3049	10.3	17.2	12.569	23.1199	40.6448	28.6857
BEX	88	Import	1	45	13.7	24.6	17.112	9.5	17.3	11.9181	22.527	40.5507	28.1593
BGT	85	Import	1	500	10	17.9	12.4782	--	--	--	10	17.9	12.4782
NLX	7	Import	1	475	12.5	22.7	15.6681	--	--	--	12.5	22.7	15.6681
VWX	1	Domestic	1	280	26.9263	40.6206	31.7418	--	--	--	26.9263	40.6206	31.7418
VWX	2	Domestic	1	280	26.2361	43.3967	31.9153	--	--	--	26.2361	43.3967	31.9153
VWX	5	Import	1	216	27.5	41.5	32.4219	--	--	--	27.5	41.5	32.4219
VWX	16	Import	2	96	16.7	28.3	20.477	--	--	--	16.7	28.3	20.477
VWX	17	Import	1	221	29.4666	44.897	34.8576	--	--	--	29.4666	44.897	34.8576
VWX	18	Import	1	221	26.5443	45.0964	32.5746	--	--	--	26.5443	45.0964	32.5746
VWX	19	Domestic	1	280	23.9	37.3	28.5088	--	--	--	23.9	37.3	28.5088
VWX	22	Import	1	225	27.6217	42.4797	32.7814	--	--	--	27.6217	42.4797	32.7814
VWX	23	Import	1	221	27.6217	42.4797	32.7814	--	--	--	27.6217	42.4797	32.7814
VWX	24	Import	1	206	27.6217	42.4797	32.7814	--	--	--	27.6217	42.4797	32.7814
VWX	25	Import	1	230	27.172	38.8543	31.4237	--	--	--	27.172	38.8543	31.4237
VWX	26	Import	1	225	26.2168	44.2259	32.0986	--	--	--	26.2168	44.2259	32.0986
VWX	27	Import	1	221	26.2168	44.2259	32.0986	--	--	--	26.2168	44.2259	32.0986
VWX	28	Import	1	206	26.2168	44.2259	32.0986	--	--	--	26.2168	44.2259	32.0986
VWX	45	Import	1	230	26.5	41.7262	31.7065	--	--	--	26.5	41.7262	31.7065
VWX	46	Import	2	211	25.9213	41.0913	31.0855	--	--	--	25.9213	41.0913	31.0855
VWX	48	Domestic	1	280	38.2	62.8	46.3746	--	--	--	38.2	62.8	46.3746
VWX	49	Import	1	225	37.6	56.2	44.1798	--	--	--	37.6	56.2	44.1798
VWX	50	Import	1	221	39.0595	59.3797	46.1693	--	--	--	39.0595	59.3797	46.1693
VWX	51	Import	1	206	39.0595	59.3797	46.1693	--	--	--	39.0595	59.3797	46.1693
VWX	52	Import	2	65	39.0595	59.3797	46.1693	--	--	--	39.0595	59.3797	46.1693
VWX	53	Import	1	225	38.778	60.3377	46.2079	--	--	--	38.778	60.3377	46.2079
VWX	54	Import	1	221	38.778	60.3377	46.2079	--	--	--	38.778	60.3377	46.2079
VWX	55	Import	1	206	38.778	60.3377	46.2079	--	--	--	38.778	60.3377	46.2079
VWX	58	Import	1	298	20.5	33.5	24.8373	--	--	--	20.5	33.5	24.8373

Ex. 4 - CBI

CAFE/GHG Draft Calculation Information Report

Manufacturer Name: Volkswagen
Manufacturer Code: VWX
Model Year: 2012
Compliance Category: Passenger Vehicles

VWX	76	Domestic	1	280		37.9	56.8	44.5744	--	--	--	37.9	56.8	44.5744
VWX	78	Import	1	221		28.1	41.499	32.8768	--	--	--	28.1	41.499	32.8768
VWX	79	Import	1	221		28.8	46.2	34.6771	--	--	--	28.8	46.2	34.6771
VWX	86	Import	2	230		25.4597	41.4194	30.8003	--	--	--	25.4597	41.4194	30.8003
VWX	87	Import	1	230		26.3336	42.6003	31.7973	--	--	--	26.3336	42.6003	31.7973
VWX	90	Import	1	235		26.3255	37.8827	30.5147	--	--	--	26.3255	37.8827	30.5147
VWX	91	Import	1	235		26.8	40.6	31.6394	--	--	--	26.8	40.6	31.6394

Ex. 4 - CBI

Manufacturer Name:	Volkswagen	**Manufacturer Code:**	VWX
Model Year:	2012	**Compliance Category:**	Passenger Vehicles

Model Type GHG Calculations

VW FOIA, EPA 06/20/2017 2017-FFP_007227

CAFE/GHG Draft Calculation Information Report

Manufacturer Name: Volkswagen
Manufacturer Code: VWX
Model Year: 2012
Compliance Category: Passenger Vehicles

							Baseline Fuel			Dual Fuel / Alt Fuel			Final Calculation		
Mfr Cd	MT Index	TLAAS	Div	CL	Prd Vol	Test Vol	City	Hwy	Comb	City	Hwy	Comb	City	Hwy	Comb
ADX	3	No	2	293			327.3	206.6	273	--	--	--	327.3	206.6	273
ADX	4	No	2	293			345.1	212.7	285.6	--	--	--	345.1	212.7	285.6
ADX	9	No	1	80			283	189	240.7	--	--	--	283	189	240.7
ADX	10	No	1	70			389	239	321.5	--	--	--	389	239	321.5
ADX	11	No	1	75			385	238	318.8	--	--	--	385	238	318.8
ADX	20	No	1	10			303.2	207.2	260	--	--	--	303.2	207.2	260
ADX	21	No	1	51			303.2	207.2	260	--	--	--	303.2	207.2	260
ADX	29	No	1	20			340.1	222.9	287.4	--	--	--	340.1	222.9	287.4
ADX	30	No	1	40			340.1	222.9	287.4	--	--	--	340.1	222.9	287.4
ADX	31	No	1	25			340.1	222.9	287.4	--	--	--	340.1	222.9	287.4
ADX	32	No	1	53			340.1	222.9	287.4	--	--	--	340.1	222.9	287.4
ADX	33	No	1	20			320.7	208.3	270.1	--	--	--	320.7	208.3	270.1
ADX	34	No	1	40			320.7	208.3	270.1	--	--	--	320.7	208.3	270.1
ADX	37	No	1	30			411	253	339.9	--	--	--	411	253	339.9
ADX	38	No	1	56			437	262	358.2	--	--	--	437	262	358.2
ADX	39	No	1	30			412	260	343.6	--	--	--	412	260	343.6
ADX	40	No	1	92			572.1	361.4	477.2	--	--	--	572.1	361.4	477.2
ADX	41	No	1	90			572.1	361.4	477.2	--	--	--	572.1	361.4	477.2
ADX	42	No	1	92	Ex. 4 - CBI		648.4	379.3	527.3	--	--	--	648.4	379.3	527.3
ADX	43	No	1	90			648.4	379.3	527.3	--	--	--	648.4	379.3	527.3
ADX	44	No	2	211			296.9	204.3	255.3	--	--	--	296.9	204.3	255.3
ADX	56	No	1	42			514	304	419.5	--	--	--	514	304	419.5
ADX	57	No	1	42			437	288	370	--	--	--	437	288	370
ADX	60	No	1	96			409	252	338.4	--	--	--	409	252	338.4
ADX	61	No	1	95			409	252	338.4	--	--	--	409	252	338.4
ADX	62	No	3	406			554	351	462.6	--	--	--	554	351	462.6
ADX	63	No	3	426			558	350	464.4	--	--	--	558	350	464.4
ADX	64	No	3	406			637	372	517.8	--	--	--	637	372	517.8
ADX	66	No	1	92			556	326.1	452.5	--	--	--	556	326.1	452.5
ADX	67	No	1	65			351	220	292	--	--	--	351	220	292
ADX	68	No	1	65			334	233	288.6	--	--	--	334	233	288.6
ADX	69	No	1	66			326	239	286.8	--	--	--	326	239	286.8
ADX	70	No	1	37			315.8	212.3	269.2	--	--	--	315.8	212.3	269.2
ADX	71	No	1	38			315.8	212.3	269.2	--	--	--	315.8	212.3	269.2
ADX	73	No	1	90			556	326.1	452.5	--	--	--	556	326.1	452.5
ADX	74	No	1	92			653.3	363.5	522.9	--	--	--	653.3	363.5	522.9

Manufacturer Name: Volkswagen
Manufacturer Code: VWX
Model Year: 2012
Compliance Category: Passenger Vehicles

ADX	75	No	1	90		653.3	363.5	522.9	--	--	--	653.3	363.5	522.9
ADX	80	No	1	61		421	261	349	--	--	--	421	261	349
ADX	83	No	2	160		325.5	238.5	286.4	--	--	--	325.5	238.5	286.4
ADX	84	No	2	160		408	248	336	--	--	--	408	248	336
ADX	89	No	2	212		373	240	313.2	--	--	--	373	240	313.2
ADX	165	No	3	426		683	394	553	--	--	--	683	394	553
BEX	8	No	1	15		702	379	556.6	--	--	--	702	379	556.6
BEX	12	No	1	40		650	361	520	651	357	518.7	373.8	207.3	298.9
BEX	13	No	1	55		640	359	513.6	604	359	493.8	365.3	206.4	293.8
BEX	14	No	1	35		640	359	513.6	604	359	493.8	365.3	206.4	293.8
BEX	88	No	1	45		650	361	520	651	357	518.7	373.8	207.3	298.9
BGT	85	No	1	500		885	495	709.5	--	--	--	885	495	709.5
NLX	7	No	1	475		711	393	567.9	--	--	--	711	393	567.9
VWX	1	No	1	280		329.7	218.7	279.7	--	--	--	329.7	218.7	279.7
VWX	2	No	1	280		338.8	204.5	278.3	--	--	--	338.8	204.5	278.3
VWX	5	No	1	216		321	213	272.4	--	--	--	321	213	272.4
VWX	16	No	2	96		532	313	433.4	--	--	--	532	313	433.4
VWX	17	No	1	221		301.3	197.7	254.7	--	--	--	301.3	197.7	254.7
VWX	18	No	1	221		334.6	196.8	272.5	--	--	--	334.6	196.8	272.5
VWX	19	No	1	280	**Ex. 4 - CBI**	373	238	312.2	--	--	--	373	238	312.2
VWX	22	No	1	225		321.1	208.9	270.7	--	--	--	321.1	208.9	270.7
VWX	23	No	1	221		321.1	208.9	270.7	--	--	--	321.1	208.9	270.7
VWX	24	No	1	206		321.1	208.9	270.7	--	--	--	321.1	208.9	270.7
VWX	25	No	1	230		327.1	228.6	282.7	--	--	--	327.1	228.6	282.7
VWX	26	No	1	225		337.9	200.8	276.2	--	--	--	337.9	200.8	276.2
VWX	27	No	1	221		337.9	200.8	276.2	--	--	--	337.9	200.8	276.2
VWX	28	No	1	206		337.9	200.8	276.2	--	--	--	337.9	200.8	276.2
VWX	45	No	1	230		335	212.9	280.1	--	--	--	335	212.9	280.1
VWX	46	No	2	211		343.1	216	285.9	--	--	--	343.1	216	285.9
VWX	48	No	1	280		266	162	219.2	--	--	--	266	162	219.2
VWX	49	No	1	225		271	182	231	--	--	--	271	182	231
VWX	50	No	1	221		261	172.3	221.1	--	--	--	261	172.3	221.1
VWX	51	No	1	206		261	172.3	221.1	--	--	--	261	172.3	221.1
VWX	52	No	2	65		261	172.3	221.1	--	--	--	261	172.3	221.1
VWX	53	No	1	225		263.3	169.5	221.1	--	--	--	263.3	169.5	221.1
VWX	54	No	1	221		263.3	169.5	221.1	--	--	--	263.3	169.5	221.1
VWX	55	No	1	206		263.3	169.5	221.1	--	--	--	263.3	169.5	221.1
VWX	58	No	1	298		435	265	358.5	--	--	--	435	265	358.5

CAFE/GHG Draft Calculation Information Report

Manufacturer Name: Volkswagen
Manufacturer Code: VWX
Model Year: 2012
Compliance Category: Passenger Vehicles

VWX	76	No	1	280	Ex. 4 - CBI	268	179	228	--	--	--	268	179	228
VWX	78	No	1	221		316	214	270.1	--	--	--	316	214	270.1
VWX	79	No	1	221		308	192	255.8	--	--	--	308	192	255.8
VWX	86	No	2	230		348.8	214.4	288.3	--	--	--	348.8	214.4	288.3
VWX	87	No	1	230		336.7	208.5	279	--	--	--	336.7	208.5	279
VWX	90	No	1	235		337.7	235.1	291.5	--	--	--	337.7	235.1	291.5
VWX	91	No	1	235		332	219	281.2	--	--	--	332	219	281.2

Model Type Calculation Errors

Manufacturer Name:	Volkswagen	**Manufacturer Code:**	VWX
Model Year:	2012	**Compliance Category:**	Passenger Vehicles

Footprint Based Standards Calculations

CAFE/GHG Draft Calculation Information Report

Manufacturer Name: Volkswagen **Manufacturer Code:** VWX

Model Year: 2012 **Compliance Category:** Passenger Vehicles

					Reformed CAFE Standard			Greenhouse Gas Standard		
Mfr Cd	**Div**	**CL**	**FP Index**	**Footprint Description**	**Trgt FE**	**Cmpl Cat**	**Prd Vol**	**Trgt GHG**	**GHG Vol**	**TLAAS**
ADX	1	10	1	A4 225/50R17	32.42	Import	Ex. 4 - CBI	270.9	5031	--
ADX	1	20	1	A4 quattro 225/50R17	32.42	Import		270.9	19892	--
ADX	1	25	1	A4 Avant quattro 225/50R17	32.42	Import		270.9	2612	--
ADX	1	30	1	S4 245/40R18	32.42	Import		270.9	4036	--
ADX	1	37	1	TT Coupe quattro 255/35R19	35.88	Import		244.5	1261	--
ADX	1	38	1	TT Roadster quattro 255/35R19	35.88	Import		244.5	576	--
ADX	1	40	1	A5 quattro 245/40R18	32.36	Import		271.4	6584	--
ADX	1	42	1	S5 255/35R19	32.48	Import		270.5	2413	--
ADX	1	51	1	A5 Cabriolet 245/40R18	32.36	Import		271.4	618	--
ADX	1	53	1	A5 Cabriolet quattro 245/40R18	32.36	Import		271.4	3007	--
ADX	1	56	1	S5 Cabriolet 255/35R19	32.48	Import		270.5	1261	--
ADX	1	61	1	TTRS 255/35R19	35.88	Import		244.5	422	--
ADX	1	65	1	A3 225/45R17	35.34	Import		248.3	2767	--
ADX	1	66	1	A3 quattro 225/45R17	35.34	Import		248.3	633	--
ADX	1	70	1	A7 quattro 255/45R18	30.04	Import		292.6	11768	--
ADX	1	75	1	A6 quattro 225/55R17	30.23	Import		290.7	16152	--
ADX	1	80	1	A6 225/55R17	30.23	Import		290.7	2222	--
ADX	1	90	1	R8 235/35R19	32.76	Import		268.1	814	--
ADX	1	92	1	R8 Spyder 235/35R19 and 295/30R19	32.76	Import		268.1	458	--
ADX	1	95	1	A8 255/40R19	29.29	Import		300.2	563	--
ADX	1	96	1	A8L 255/40R19	28.28	Import		311	3792	--
ADX	2	160	1	Tiguan 215/65R16	28.65	Import		306.4	9383	--
ADX	2	160	2	Tigaun SE low roll 235/50R18	28.8	Import		304.7	8879	--
ADX	2	211	1	GTI 225/40R18	35.08	Import		250.2	18586	--
ADX	2	212	1	Golf R 225/40R18 awd	35.08	Import		250.2	2822	--
ADX	2	230	1	Beetle 2.0T 235/45R18	34.95	Import		251.1	2212	--
ADX	2	293	1	CC 235/45R17	33.22	Import		264.3	29135	--
ADX	3	406	1	Gallardo 235/35R19 295/30R19	33.7	Import		260.5	154	--
ADX	3	426	1	Gallardo Spyder 235/35R19 295/30R19	33.7	Import		260.5	131	--
BEX	1	15	1	Mulsanne 265/65R20	27.95	Import		315	233	--
BEX	1	35	1	GT 275/40R19	31.87	Import		275.6	994	--
BEX	1	40	1	Flying Spur 275/40R19	29.11	Import		302.1	395	--
BEX	1	45	1	GTC 275/40R19	31.87	Import		275.6	589	--
BEX	1	55	1	Continental Supersports Convertible 275/35R20	31.55	Import		278.5	82	--
BGT	1	500	1	Veyron	31.29	Import		280.8	5	--
NLX	1	475	1	Aventador 2555/35R19 335/30R20	30.83	Import		285.1	252	--

CAFE/GHG Draft Calculation Information Report

Manufacturer Name: Volkswagen **Manufacturer Code:** VWX

Model Year: 2012 **Compliance Category:** Passenger Vehicles

VWX	1	206	1	Golf 195/65R15	35.01	Import	Ex. 4 - CBI	250.6	11120	--
VWX	1	206	2	Golf TDI 225/45R17	35.27	Import		248.7	11265	--
VWX	1	216	1	Eos 235/45R17	34.69	Import		253	11140	--
VWX	1	221	1	Jetta 205/55 R16	34.12	Import		257.2	117966	--
VWX	1	221	2	Jetta (MPI) 195/65/R15	34.06	Import		257.7	27717	--
VWX	1	221	3	Jetta (GLI) 225/45 R17	34.31	Import		255.8	8767	--
VWX	1	225	1	Jetta SportWagen 205/55R16	35.08	Import		250.2	23703	--
VWX	1	230	1	Beetle 2.0T 235/45R18	34.95	Import		251.1	7397	--
VWX	1	230	2	Beetle 2.5L 215/55R17	34.82	Import		252	20863	--
VWX	1	235	1	Beetle Convertible 2.0T 235/45R18	34.95	Import		251.1	150	--
VWX	1	280	1	Passat (TDI) 215/55 R17	32.14	Domestic		273.3	18676	--
VWX	1	280	2	Passat (VR6) 235/45 R18	32.31	Domestic		271.9	4457	--
VWX	1	280	3	Passat (2.5) 215/60 R16	32.14	Domestic		273.3	72450	--
VWX	1	298	1	CC 4Motion 235/40R18	33.22	Import		264.3	215	--
VWX	2	65	1	A3 TDI 225/45R17	35.34	Import		248.3	3887	--
VWX	2	96	1	A8L 255/40R19 12 cyl	28.28	Import		311	183	--

VOLKSWAGEN

GROUP OF AMERICA

Mr. Linc Wehrly
Compliance and Innovative Strategies Division
Light-Duty Vehicle Group
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Mr. Oliver Schmidt Name
General Manager Title
EEO Department
248 754 4201 Phone
248 754 4207 Fax
Oliver.Schmidt@vw.com E-Mail

May 30, 2013 Date

Subject: VOLKSWAGEN Group 2012 Final Passenger Car CAFE Reports

VOLKSWAGEN GROUP OF AMERICA, INC.
3800 HAMLIN ROAD
AUBURN HILLS, MI 48326
PHONE +1 248 754 5000

Dear Mr. Wehrly;

Enclosed is the manufacturer's calculation for the 2012 final fuel economy average. This calculation is provided for the VOLKSWAGEN Import and Domestic Passenger Car categories and in accordance to the regulations contained in 40 CFR 600.510-12. The final CAFE values are based upon approved EPA fuel economy data and final production volumes for the 2012 model year vehicles.

The Import Passenger Car category report has successfully been processed using the Verify system. The Baseline (Non-AMFA) CAFE adjusted value is 33.2 MPG. The adjusted CAFE with AMFA Credits included is **33.3** MPG. This value does not exceed the maximum cap and increase for 2012 of 1.2 MPG as specified in paragraph (h) of 40 CFR 600.510-12.

The calculated reformed CAFE Import category standard is **30.7** MPG, as specified in paragraph (c) of 49 CFR 531.5.

The Domestic Passenger Car category report has successfully been processed using the Verify system. The final CAFE value is **33.7** MPG.

The calculated reformed CAFE Domestic category standard is **32.1** MPG, as specified in paragraph (c) of 49 CFR 531.5.

The attachments to this letter contain the domestic content calculation as requested in the EPA certification mail-out CD-92-06. The Volkswagen Group of America, Inc. procedure for this calculation follows the procedure outlined in 40 CFR 600.511-08. Our procedure is described as follows:

- For vehicles produced outside of the NAFTA territory, the "declared value" of foreign components is basically, the ex factory value of each of the models which we have imported. The freight and insurance is added to this value and is labeled as "adjusted import value'. The value of U.S. components has not been excluded because this value is included in the declared value upon importation of the vehicles. The "cost of production" as defined in the regulations equates to our wholesale price to the dealer.

- For vehicles produced within the NAFTA territory (Mexico), we followed the procedure established according to NAFTA Appendix 300-A.3, where Paragraph 1 states:

  "For purposes of the Energy Policy and Conservation Act of 1975, 42 U.S.C. 6201...the United States shall consider an automobile to be domestically manufactured in any model year if at least 75 percent of the cost to the manufacturer of such automobile is attributable to value added in Canada, Mexico or the United States...Paragraph 1 shall apply beginning with the next model year after January 1, 2004, where the enterprise subject to the fuel economy requirements for those automobiles under the CAFE Act, has not made an election under subparagraph a)."

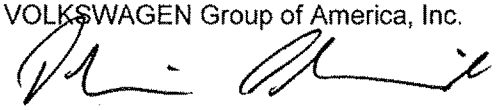
  For purposes of paragraph 1, and according to 40 CFR 600.511-08, the ratio obtained in the domestic production determination was obtained from dividing the sum of the declared value (as defined in §600.502) of all of the imported components installed or included on automobiles produced within such a car line within a given model year plus the cost of transportation and insuring such components to the United States Port of entry, by the cost of production (as defined in §600.502) of all automobiles within such a car line.

The calculated results for each model are listed in the right column entitled CAFE Ratio. These values are clearly greater than the 0.25 ratio and therefore all Volkswagen Group carlines, with the exception of the Passat, are determined to be Import within the Import category Passenger Car report.

The Volkswagen Passat models are assembled in the Chattanooga, Tennessee USA manufacturing facility and are in the Domestic category Passenger Car report.

If you have any questions or require additional information, please contact me or Mr. Richard Thomas at (248) 754-4213.

Sincerely,
VOLKSWAGEN Group of America, Inc.



Mr. Oliver Schmidt
General Manager
Engineering and Environmental Office

Attachments

INDEX #	Brand	Carline	Engine	DISP	Trans	CITY	HWY	COMB Round	Model Type Sales	Weighted Sales/MPG

Ex. 4 - CBI

INDEX #	Brand	Carline	Engine	DISP	Trans	CITY	HWY	COMB Round	Model Type Sales	Weighted Sales/MPG

Ex. 4 - CBI

INDEX #	Brand	Carline	Engine	DISP	Trans	CITY	HWY	COMB Round	Model Type Sales	Weighted Sales/MPG
[redacted]										

Ex. 4 - CBI

To: Good, David[good.david@epa.gov]
From: Schmidt, Oliver (EEO)
Sent: Mon 12/23/2013 7:33:50 PM
Subject: Automatic reply: 2012 CAFE VW Model Year Report -Import Pass Car CAFE standard in VW letter (30.7mpg) disagrees with Verify (33.674)

Hello,

thank you for your mail.

Ex. 6

In urgent cases you can try to reach me on my cell.

Oliver Schmidt

To: Good, David[good.david@epa.gov]
From: Thomas, Richard (EEO)
Sent: Mon 12/23/2013 7:33:50 PM
Subject: Automatic reply: 2012 CAFE VW Model Year Report -Import Pass Car CAFE standard in VW letter (30.7mpg) disagrees with Verify (33.674)

Thanks for your mail..... **Ex. 6**

To: Good, David[good.david@epa.gov]
Cc: French, Roberts[french.roberts@epa.gov]; Schmidt, Oliver (EEO)[Oliver.Schmidt@vw.com]; Snyder, Jim[Snyder.Jim@epa.gov]; Kata, Leonard (EEO)[Leonard.Kata@vw.com]
From: Thomas, Richard (EEO)
Sent: Thur 12/26/2013 2:05:12 PM
Subject: RE: 2012 CAFE VW Model Year Report -Import Pass Car CAFE standard in VW letter (30.7mpg) disagrees with Verify (33.674)

Hi Dave;

I checked the files and found that our letter you attached contained a typo, the correct Import Passenger Car CAFE reformed standard should be 33.7 MPG as you see from the Verify processing report, and not the 30.7 MPG. I will revise the letter, if you prefer, when I am back in the office on January 7th.

Happy New Year!

Richard

From: Good, David [mailto:good.david@epa.gov]
Sent: Monday, December 23, 2013 2:34 PM
To: Thomas, Richard (EEO)
Cc: French, Roberts; Schmidt, Oliver (EEO); Snyder, Jim
Subject: 2012 CAFE VW Model Year Report -Import Pass Car CAFE standard in VW letter (30.7mpg) disagrees with Verify (33.674)

Richard,

While reviewing VW's 2012 Passenger Car CAFE letter & the data in Verify, I noticed a discrepancy in the VW letter (attached) and the Verify Report (attached) for the Import passenger car CAFE standard. Page 1 of VW letter indicates an Import Pass Car standard of 30.7 mpg while the Verify report indicates a manufacturer input CAFE standard of 33.674.

Your CAFE letter didn't supply the footprint standards calculations, so I can't double check the standard listed on page 1 of the letter.

Based on the footprint data which you entered into Verify, Verify calculated a CAFE standard of 33.7 mpg.

Please advise.

Thanks